中國工程學刊

索引(第六卷至第十卷)

(民國七十二年至七十六年)

中華民國七十九年四月

Journal of the Chinese Institute of Engineers

Index(VOL.6–VOL.10)

(1983—1987)

Published in Taipei, Taiwan, Republic of China

April 1990

中 國 工 程 學 刊

JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS

發行人：樊 祥 孫

出版者：中國工程師學會

地 址：台北市仁愛路二段一號四樓

電 話：（02）392-5128

PUBLISHER: S. S. Fan

PUBLISHED BY:
Chinese Institute of Engineers

Address: #1, 4th Fl., Sec. 2, Jen-Ai Rd., Taipei, Taiwan 10019, Republic of China
Tel: (02) 392-5128

中國工程學刊編輯委員會

地 址：台北市基隆路四段 43 號
國立台灣工業技術學院轉

電 話：（02）737-3196
傳 眞：（02）737-3196

主任委員暨總編輯：石 延 平

委 員：

王 茂 齡（化工組召集人）
呂 秀 雄（機械組召集人）
李 琳 山（計算機組召集人）
施 漢 章（材料組召集人）
顏 清 連（土木組召集人）
蘇 炎 坤（電機組召集人）

王國明	王國雄	汪群從	林陽泰
洪如江	洪敏雄	翁鴻山	郭德盛
陳文華	張眞誠	張進福	楊濬中
蔡文祥	劉昌煥	戴怡德	薛敬和
魏哲和	譚建國	蘇 侃	

總幹事：陳 南 鳴

Editorial Board of the Journal of the Chinese Institute of Engineers

Address: c/o National Taiwan Institute of Technology
43, Sec. 4, Keelung Rd., Taipei, Taiwan
10772, Republic of China
Tel: (02) 737-3196
Fax: (02) 737-3196

Board Chairman & Editor-in-Chief: Y. P. Shih

Editors:

	M.L. Wang*	(Chemical)	
	S.S. Lu*	(Mechanical)	
	L.S. Lee*	(Computer)	
	H.C. Shih*	(Material)	
	C.L. Yen*	(Civil)	
	Y.K. Su*	(Electrical)	
K.M. Wang	K.S. Wang	C.T. Wang	Y.T. Lin
J.J. Hung	M.H. Hon	H.S. Weng	T.S. Guo
W.H. Chen	C.C. Chang	J.F. Chang	C.C. Yang
W.H. Tsai	C.H. Liu	Y.T. Dai	G.H. Hsiue
C.H. Wei	J.Q. Tarn	H. So	

*in charge of each engineering field

Executive Editor: Nanming Chen

中國工程學刊每年出版六次。國內機關學校訂閱每年新台幣六〇〇元；個人訂閱：非會員六〇〇元，會員二〇〇元。國外機關學校訂閱每年美金四〇元，個人二〇元（含陸海運郵資）。
郵政劃撥〇五七〇〇〇〇～一號
中國工程師學會帳戶

The Journal of the Chinese Institute of Engineers is published bimonthly. Institutional subscription rate: NT$600.00 annually; personal subscription rate: NT$600.00 for nonmembers, NT$200.00 for members. The annual rates for foreign subscriptions are US$40.00 for organizations and US$20.00 for individuals (including surface mail postage).

本學刊之發行係由教育部補助部份經費。

The publication of this Journal is partially subsidized by the Ministry of Education.

排版印刷者：文太印刷企業有限公司

地址：台北市萬大路 493 巷58弄18號
電話：(02) 3019740 · 3032884

AUTHOR INDEX (Vol. 6-10)

Ablow, Charles M., see, Chen, Yu-Wen, 10, 183
Book, Wayne J., see Chung, Ya-Chien, 10, 241
Burnet, George, see Chang, Ching-Yuan, 10, 295
Chan, Kuan-Kin——Radiation of a Line Source in a Leaky Wedge Structure 7, 147
Chan, Kwan-Kit and Chorng-Shyr Jon——Experimental Technique for the Measurement of Flame Propagation in Heterogeneous Fuel Sprays, An..... 8, 423
Chan, Kwan-Kit and Long Chyn——Effects of Size Distribution on the Combustion Efficiency of a Liquid Propellant Rocket Motor 8, 411
Chan, Kwan-Kit and Long-Jen Chen——Design and Fabrication of a Monodisperse Aerosol Generator, The..... 7, 271
Chang, Chi-Keng and Kuo-An Hwang——Computer Simulator for Concurrent Processor, A 10, 447
Chang, Chi-Ming, see Chen, Kuo-Cheng, 7, 187
Chang, Chien-Yu, see Chen, Kuo-Cheng, 7, 181
Chang, Chin-Chen and Chang-Pu Chen——Key-Lock-Pair Mechanism Based on Generalized Chinese Remainder Theorem, A..... 9, 383
Chang, Chin-Chen and Don-Hsin Su——Performance Analyses of Multi-Attribute Files Based Upon Multiple Key Hashing Functions and Haphazard Files.....10, 99
Chang, Chin-Chen and Jaw-Ji Shen——Performance Analysis of the Disk Modulo Allocation Method for Concurrent Accessing on Multiple Disk Systems..... 8, 271
Chang, Chin-Chen and Jenn Liang——Performance Analysis of a *k*-Nearest Neighbor Searching Technique 8, 157
Chang, Chin-Chen and Jiann-Cherng Shieh——Design of Letter Oriented Minimal Perfect Hashing Functions, On the..... 8, 285
Chang, Chin-Chen and Syh-Shyan Chang——Optimal Cartesian Product Files for Orthogonal Range Queries 10, 727
Chang, Ching-Yuan, Dong-Chir Hwang, and Chu-Liang Deng——Effect of Interfacial Resistance on Gas Absorption with Chemical Reaction: The Film Theory Model, The.....10, 191
Chang, Ching-Yuan, George Burnet, and Mike J. Murtha——Recovery of Metals from Power Plant Fly Ash by Two-Stage Preferential Chlorination.....10, 295
Chang, Chuang-Jan, see Huang, Ying-Sheng, 9, 27
Chang, Chung-Ju and Jin-Fu Chang——Performance Evaluation of a Finite Queue with Random Routing 10, 671
Chang, Eng-Muh, see Lin, Ing-Jaung, 8, 213
Chang, Fu-Siang, see Lin, Zone-Ching, 10, 353
Chang, Hsien-Chung, see Liu, Chang-Huan, 8, 31
Chang, Hun-I and Jia-Huey Tsao——Experimental Study of On-Line Computer Control Techniques Applied to a Double Pipe Heat Exchanger, An..... 9, 149
Chang, Jin-Fu——Discrete-Time Multiquene-Multiserver System with Time-Division Multiplexed Services and Non-Zero Walktime, A.....10, 561
Chang, Jin-Fu, see Chang, Chung-Ju, 10, 671; Dou, Chie, 9, 405; Lin, Jeffrey, 8, 171; Lou, Ching-Hsing, 6, 161; Tsai, Duei, 9, 595
Chang,Kai-Cheng and Chien-Chiao Yang——Real-Time Pitch Extraction and Four-Tone Recognition System for Mandarin Speech, A..... 9, 37
Chang, Rong-Yeu and Maw-Ling Wang——Application of Shifted Legendre Functions in Analysis of Dynamic Systems..... 6, 235
Chang, Rong-Yeu and Maw-Ling Wang——Properties of Modified Hermite Polynomials and Their Applications to Functional Differential Equations, The..... 9, 75
Chang, Rong-Yeu, see Wang, Maw-Ling, 6, 31; Wang, Maw-Ling, 10, 573
Chang, Shian-Gwo, see Lin, Shi-Chuan, 10, 539
Chang, Syh-Shyan, see Chang, Chin-Chen, 10, 727
Chang, Tann-Ching, see Chen, Kuo-Cheng, 7, 181
Chang, Walter H., Tsann-Rou Lin, and Kang-Ping Lin——Real-Time Feature Extraction Method for PVC Detection in Bedside Monitor, A.....10, 511
Chao, Shyh-Shi, see Lee, Si-Chen, 6, 245
Char, Jir-Ming——Ablation Problem in a Finite Medium with Time-Dependent Heat Flux, An..... 7, 211
Chen, Bao-Dong, see Chiu, Rex Mao-Hsin, 10, 329
Chen, Bor-Sen, see Hsiao, Feng-Hsian, 10, 371; Hsiao, Feng-Hsian, 10, 517
Chen, Chang-Fuu——Modified Floating-Point Code for Voice Coding and Its Applications, A.....10, 421
Chen, Cha'o-Kuang and Ming-Jer Huang——Heat Transfer Analysis for Conjugate Free Convection-Conduction in a Vertical Plate Fin..... 7, 151
Chen, Cha'o-Kuang, see Huang, Ming-Jer, 6, 209; Wong, King-Leung, 9, 605
Chen, Chan-Lin, see Pei, Soo-Chang, 7, 239

Chen, Chang-Pu, see Chang, Chin-Chen, 9, 383
Chen, Chao-Peng, see Huang, Shih-Yow, 9, 355
Chen, Cháo-Wen and Chun-I Lin——Mathematical Modeling of the Iron Blast Furnace, I: Longitudinal Distributions of the Process Variables, A 8, 115
Chen, Cháo-Wen and Chun-I Lin——Mathematical Modeling of the Iron Blast Furnace, II: The Effects of Changes of Operating Conditions, A 8, 129
Chen, Chau-Chih, see Lee, Shih-Tuen, 9, 391
Chen, Chin-Rong, see So, Hon, 10, 33
Chen, Ching-Chi, see Liu, Chang-Huan, 10, 53
Chen, Ching-Hai, see Lin, Shih-Chang, 7, 55
Chen, Ching-Huei, see Chern, Jenn-Chuan, 10, 625
Chen, Chon-Fon, see Wang, Maw Ling, 7, 27
Chen, Chuh-Yung, Jen-Feng Kuo, Schon Youh Shieh, and Jih-Gang Tornt——Salt Effect of Lithium Bromide on the Solution Polymerization of Acrylonitrile 9, 259
Chen, Chuh-Yung, Shiou Wen Chen, Jium-Yueh Mao, and Jen-Feng Kuo——Simulation for the Bulk Polymmerization of Acrylonitrile, A 7, 171
Chen, Da-Hong and Chwan-Chia Wu——Error Correction in Bit-Sliced Systems with Redundancy in Time 10, 597
Chen, Da-Hong, see Cheng, Chyun-Shin, 10, 453
Chen, En-Tsung and Ching-Tien Liou——Viscous Flow Between Parallel Plates with Heat Generation 9, 69
Chen, Her-Yuan, see Kuo, Yi-Yu, 6, 1
Chen, Hsuan, see Lu, Wei-Ming, 9, 399
Chen, Hun-Mei, see Huang, Ying-Sheng, 9, 27
Chen, Jiahn-Ann, Si-Chen Lee, and Hao-Hsiung Lin——AlGaAs/GaAs V-Groove Channeled Substrate Buried Heterostructure Laser Diodes 8, 311
Chen, June-Jye, see Lin, Hsiao-Tsung, 10, 681
Chen, Jyh-Ming, see Yeh, Hsuan-Hsien, 10, 335
Chen, Kang-Shin, Kuan-Hsiung Yang, and Wang-Cheng Hwang——Moisture Migration and Condensation Within Porous Material 10, 485
Chen, Keh-Jiann, Chien-Chiao Yang, and Wie-Chiao Wu——Computer Aided Design System for Artistic Chinese Fonts, A 9, 431
Chen, Keh-Jiann, see Cheng, Kuo-Young, 6, 175
Chen, Keng-Ming——Interaction Between Disperse Dye and Water Soluble Polyester Surfactant 10, 579
Chen, Kenneth Y., see Wang, Sung-Bin, 7, 109
Chen, Kuan-Chih, see Liu, Ta-Jo, 10, 345
Chen, Kuo-Cheng, Chan-Shing Lin, and Juan-Yih Wu——Effects of Substrate Protection and Intraparticle Diffusion on the Stability of Immobilized Glucose Isomerase 8, 365
Chen, Kuo-Cheng, Chi-Ming Chang, Chi-Chiu Ling, and Fu-Shiow Yin——Analysis of an Immobilized Lactase Reactor 7, 187
Chen, Kuo-Cheng, Yung-Chan Liou, Ching-Liang Lai, Chien-Yu Chang, Long-Huei Wang, Shyang-Ling Sang, and Tann-Ching Chang——Estimation of the Intrinsic Kinetic Constants in the Immobilized Enzyme System 7, 181
Chen, Kuo-Young and Keh-Jiann-Chen——System Model for Chinese Character Fonts Generation, A 6, 175
Chen, Li-Ming, see Hsu, Chung-Yu, 8, 135
Chen, Long-Jen, see Chan, Kwan-Kit, 7, 271
Chen, Muh-Yang, see Hwang, Chyi, 10, 417
Chen, Po-Ning, Yung-Sheng Chen, and Wen-Hsing Hsu——Reduced Processing Element Architecture for Parallel Local Image Processing 10, 701
Chen, Rong-Her and Biing-Lurng Jiang——Limit Equilibrium Method for Analyzing Progressive Failure in Slopes, A 9, 345
Chen, Rong-Her and Jiann-Jyh Wang——Constitutive Model for Saturated Compacted Soils under Undrained Shear Condition, A 10, 639
Chen, Rong-Liang and Wen-Teng Wu——Parameter Estimation with Variable Sampling Time via Generalized Block Pulse Functions 10, 567
Chen, Shiou-Wen, see Chen, Chuh-Yung, 7, 171
Chen, Sin-Horng and Min-Tau Lin——Text-Independent Speaker Identification via LPC and Tone Structure of Mandarin Speech 10, 555
Chen, Tien-Tsyh, see Chou, Yi-Hwa, 6, 65
Chen, Wei-Ren, see Wang, Kuo-Shong, 9, 127
Chen, Wei-Shin, see Liou, Ching-Tien, 6, 127
Chen, Wen-Hwa and Pwu Tsai——Static and Dynamic Finite Element Analysis of Helical Springs and Experimental Verifications, On 6, 9

Chen, Wen-Liang——Analysis of the Delay Systems Without Time Partition 6, 61
Chen, Wen-Tsuen and Jang-Ping Sheu——Task Assignment in Loosely-Coupled Multiprocessor Systems 10, 721
Chen, Wen-Tsuen, Yung-Chen Hung, and Mu-Chun Tzen——Pipelined Database Machine with Efficient Join Operation, A.....10, 585
Chen, Yang-Yih, see Lin, Shi-Chuan, 10, 539; Ching-Piao, 10, 233
Chen, Yin-Yu and Deh-Shiu Hsu——Reliability-Based Design for Space Steel Frames 7, 1
Chen, Yu-Wen——C-H-O Systems in the Presence of Iron Oxide and Iron Carbide 10, 107
Chen, Yu-Wen——Effect of Pore Diffusion on the Rate of Methanation Reaction in a Heterogeneous Catalyst 8, 299
Chen, Yu-Wen and Charles M. Ablow——Catalyst Deactivation by Surface Poisoning in a Plug Flow Reactor 10, 183
Chen, Yuh-Chyoung, Huey-Liang Hwang, Cheng-Ming Fou, and Jung-Chen Liue——Characterization of Surface Profiles of LPCVD Silicon Nitride Films by RBS-Profile.....10, 195
Chen, Yung-Chang——New Algorithms of Interpolations for a Computer Numerical Control System 8, 437
Chen, Yung-Chang and Ming-Fa Tsai——Scanning Laser-Range-Finder with Dual Receivers, A 10, 67
Chen, Yung-Chang and Nan-Chang Lin——Bit-Sliced Design for a Programmable Digital Filter, A... 6, 153
Chen, Yung-Sheng, see Chen, Po-Ning, 10, 701
Cheng, Chyun-Shin, Yih-Yih Wu, Da-Hong Chen, and Chwan-Chia Wu——Automatic Test Program Generation for Analog Circuits: The Self-Testing Approach 10, 453
Cheng, Fuhua and Wen-Chiuan Liao——Flexible Subdivision Theorems for B-Spline and Bézier Curves 9, 97
Cheng, Kuen-Huei and Chang-Huan Liu——Analysis and Design of a High Efficiency Sinusoidal Inverter 7, 245
Cheng, Kuo-Young and Keh-Jiann Chen——System Model for Chinese Character Fonts Generation... 6, 175
Cheng, Tung-Sen, see Tsao, Hen-Wai, 7, 43
Chern, Jenn-Chuan and Ching-Huei Chen——Multiaxial Constitutive Law for Concrete Structures Subjected to Impact Loading, The 10, 625
Cheung, Kwok-Wai and Mi-Ching Tsai——Adaptive Controller with Optimal Quadratic Pole and Zero Assignment, An.....10, 75
Chiang, Te-Pu, see Hwang, Robert R., 9, 617
Chiao, Mau-Tse, see Hwang, Robert R., 9, 617
Chien, Wen-Nan, see Chiu, Rex Mao-Hsin, 9, 307; Chiu, Rex Mao-Hsin, 10, 329
Chien, Yi-Sui, see Liou, Ching-Tien, 6, 127
Chien, Shih-Chen and Ting-Yueh Lee——Sorption and Diffusion of Alcohol-Benzene Mixtures in Dowex MSC-1..... 8, 17
Chiou, Chang-Ping——Method of Combining Rigid Body Displacements for the Determination of Rigid Body Rotations of Structural Members in the Slope-Deflection Method, A..... 9, 505
Chiou, Yeong-Fang, see Lin, Ming-Chung, 8, 325
Chiou, Yuin-Lei, see Shieh, Ming-Huei, 8, 191
Chiou, Yun-Leei, see Hwu, Jenn-Gwo, 9, 171
Chiu, Jung-Hui and Lin-Shan Lee——Digital PN Signal Correlator with Improved Performance, A... 9, 527
Chiu, Jung-Hui and Lin-Shan Lee——Direct Sequence Voice Scrambling Scheme—A New Technique for Secure Communications 8, 397
Chiu, Jung-Hui and Lin-Shan Lee——Graphic Approach to Draw the S-Curves for the Symbol Synchronizers, A..... 9, 417
Chiu, Rex Mao-Hsin, Bao-Dong Chen, and Wen-Nan Chien——Prediction of the Thermal Conductivity of Polar Pure Liquids 10, 329
Chiu, Rex Mao-Hsin, Han-Chin Twu, and Chi-Tsung Huang——Viscosities of Binary and Ternary Systems of Acrylonitrile, Acetonitrile, and Water 7, 279
Chiu, Rex Mao-Hsin, Wen-Nan Chien, and Chen-Chi Wei——Assessment and Improvement of Viscosity Models for Miscible Binary and Ternary Liquid Mixtures 9, 307
Chiu, Yi-Yung and Che-Ho Wei——Realization of Multimemory Block Structure Digital Adaptive Filter Using Distributed Arithmetic, On the 10, 115
Chou, Chih-Chung and Yeh-Shiang Shih——Optimum Design of a Cogeneration System in Processes 9, 375
Chou, Chih-Kao, see Wang, Maw-Ling, 7, 133
Chou, Fu-Chu and Jenn-Nan Lin——Geometrical Effect on Laminar Mixed Convection in the Entrance Region of Shrouded Arrays of Heated Rectangular Blocks.....10, 709
Chou, Jenn-Chien, see Wu, Wen-Teng, 7, 127
Chou, Kan-Sen and Feng-Renn Jean——Effect of Particle Agglomeration on the Results from Two Different Size Measuring Instruments..... 8, 305
Chou, Kan-Sen, see Lee, Yu-Hua, 10, 391

Chou, Lian-Chen, see Liu, Chang-Huan, 10, 53
Chou, Yi-Hwa and Tien-Tsyh Chen——Preliminary Study on the Simulation of Mixed Traffic Flow, A 6, 65
Chou, Yi-Shyong, see Liou, Ching-Tien, 6, 99; Liou, Ching-Tien, 9, 581
Chou, Tse-Chuan, Bing-Joe Hwang, and Cheng-Chieh Lee——Comparison of the Homogeneous and the Heterogenizing Homogeneous Co^{3+} Catalyst in the Synthesis of Organic Peroxides 10, 441
Chou, Tse-Chuan, see Hwang, Bing-Joe, 10, 531
Chow, Hang-Chun, see Hwang, Chyi, 9, 267
Chow, Siu-Kay——Detection of Signals with Frequence-Shifted Replicas 9, 83
Chu, Sing, see Soong, Chyi-Yeou, 6, 21
Chuang, Min-Che, Liou, Ching-Tien, 6, 219
Chung, I-Yao, see Wang, Maw-Ling, 10, 573
Chung' Shao-Shiun——Design of a Universal Active Filter Using Generalized Immittance Converter Biquads 6, 43
Chung, Shao-Shiun——Realization of a New Class of Five-Element-Kind Networks 6, 117
Chung, Tze-Wen and Chau-Jen Lee——Effect of Blood Flow Phenomena on Oxygenation Efficiency, The 6, 51
Chung, Ya-Chien, Shui-Shong Lu, and Wayne J. Book——Modeling and Optimal Control of a Lightweight Bracing Manipulator 10, 241
Chung, Yun-Kung——Generalized Geometric Programming with Both Equality and Inequality Constraints 6, 269
Chyn, Long, see Chan, Kwan-Kit, 8, 411
Deng, Chu-Liang, see Chang, Ching-Yuan, 10, 191
Dou, Chie and Jin-Fu Chang——Polling of Two Correlated Queues under Three Service Disciplines in Discrete-Time Environment 9, 405
Fong, I-Kong, Chen-Fa Hsu, Min-Yen Wu, and Te-Son Kuo——Relationship Between the Eigenstructures and Trajectory Sensitivity of Autonomous Linear Time-Invariant Systems, The 8, 373
Fong, I-Kong, Te-Son Kuo, Chen-Fa Hsu, and Min-Yen Wu——Two New Methods for the Synthesis of Low Sensitivity State Feedback Regulator 9, 179
Fou, Cheng-Ming, see Chen, Yuh-Chyoung, 10, 195
Guo, Ruey-Tyng, see Ren, Fan, 6, 39
Hong, Chain-Gee and Guang-Jyh Hwang——Numerical Analysis of Magnetic Field Distribution in an Air Gap with the Effect of Armature Reaction 10, 129
Hong, Chain-Gee and Guang-Jyh Hwang——Numerical Analysis of Magetic Field Distribution in an Air Gap with the Effects of Slot Depth and Width 9, 203
Hong, Chain-Gee and Guang-Jyh Hwang——Numerical Prediction of Carter Coefficient in a Curved Air Gap, A 19, 217
Hong, Hong-Ki and Lei Hin-Chi——Rotary Effect on the Constitutive Equation of a Rotational Deformable Object 9, 223
Hong, Kung-Ming, see Hwang, Bing-Joe, 10, 321
Hong, Shen-Sein, see Hwang, Chao-Lung, 9, 289
Hsiah, Kuo-Hsien, see Hsieh, Jer-Guang, 10, 273
Hsiao, Feng-Hsian and Bor-Sen Chen——LQG Optimal Controller Synthesis with Robust Optimization in Multivariable Systems 10, 517
Hsiao, Feng-Hsian and Bor-Sen Chen——Robust Optimization of Multivariabie Systems with Time-Varying Nonlinear Perturbations, The
Hsieh, Jer-Guang and Cheng-Feng Sze——σ-Stability and Characterization of All σ-Stabilizing Compensators 10, 309
Hsieh, Jer-Guang and Kuo-Hsien Hsiah——Inverse Problems of Linear Feedback Control Systems: Stabilization, Tracking and Disturbance Rejection 10, 273
Hsieh, Shou-Shing Nihal E. Wijeysundera and C. William Savery——Flow Field Measurements and Physical Processess in Confined Air-Water Jet 9, 513
Hsiue, Ging-Ho and Sheng-Chang Wu——Stress Relaxation of the 1, 2-Syndiotatic Polybutadiene Thermoplastic Elastomer, The 8, 357
Hsiue, Chen-Fa, see Fong, I-Kong, 8, 373
Hsu, Chen-Fa, see Fong, I-Kong, 8, 373; Fong, I-Kong 9, 179; Juang, Yau-Tarng, 10, 177; Juang, Yau-Tarng, 10, 665; Wang, Wen-Jieh, 19, 409
Hsu, Chung-Yu, Li-Ming Chen, Kan-Lee Liou and Yuan-Yih Hsu——Effect of Power System Stabilizers and Load Frequency Controllers on Power System Dynamic Stability 8, 135
Hsu, Deh-Shiu, see Chen, Yin-Yu, 7, 1
Hsu, Tsung-Shin——Technique of Progress Monitoring and Priority Control in an MRP System, The 8, 75
Hsu, Wen-Hsing, see Chen, Po-Ning, 10, 701

Hsu, Yuan-Yih and Chi-Jui Wu——Application of the Parameter Plane Method to the Design of a Digital Power System Stabilizer 10, 167
Hsu, Yuan-Yih and Chi-Jui Wu——Design of Sampled-Data Load Frequency Controllers Using Parameter Plane Methods, The 9, 89
Hsu, Yuan-Yih, see Hsu, Chung-Yu, 8, 135
Hu, Yu-Hen, see Sung, Tze-Yun, 10, 375; Sung, Tze-Yun, 10, 493
Huang, Chi-Tsung, see Chiu, Rex Mao-Hsin, 7, 279
Huang, Chun-Ming, see Wu, Ruey, Beei, 7, 119
Huang, Chun-Ming, see Wu, Ruey-Beei, 7, 119
Huang, Jia-Yann, see So, Hon, 9, 465
Huang, Min-Chih——Finite/Infinite Element Analysis of Wave Diffraction 8, 1
Huang, Ming-Jer and Cha'o-Kuang Chen——Laminar Free Convection over a Horizontal Circular Cylinder with Blowing and Suction 6, 209
Huang, Ming-Jer, see Chen, Cha'o-Kuang, 7, 151
Huang, Pao-San, see Lu, Shui-Shong, 9, 557
Huang, Shih-Yow and Chao-Peng Chen——Growth Kinetics and Cultivation of Spirulina Platensis... 9, 355
Huang, Ying-Sheng, Sen-Bin Tseng, Chuag-Jan Chang-Jan Chang, Hun-Mei Chen and Gwo-Jen Jan ——Microcomputer-Controlled Measurement of the Electrolyte Electroreflectance of $Ga_{1-x}Al_xA_s$... 9, 27
Huang, Yinn-Nien and Spring-Zu Yang-——Fabrication of Matched Cladding and Depressed Cladding Single Mode Optical Fibers 9, 641
Huang, You-Min——Elasto-Plastic Analysis of Hydrostatic Bulging of a Circular Sheet, An 10, 87
Huang, Yung-Dar——Channel Imbalance Phenomena and Error Bias Analysis in PN Code Tracking Loops, The 8, 67
Huang, Shiow-Yuan——Design and Implication of Packet Switching System, The 7, 61
Huang, Wei-Teh——Functional Programming in Graphs 10, 87
Hung, Ming-Pan——Effects of the Morphology of Al_3Ni on the Strength af an Al-7 w/o Ni Alloy, The 7, 37
Hung, Yung-Chen, see Chen, Wen-Tsuen, 10, 585
Hwang, Bing-Joe, see Chou, Tse-Chuan, 10, 441
Hwang, Bing-Joe, Tse-Chuan Chou and Kung-Ming Hong——Oxidation of Sulphite at Higher Concentration of Cabaltous Ion Catalyst 10, 531
Hwang, Chao-Lung and Chao-Yin Lin——Strength Development of Blended Blast-Furnace Slag-Cement Mortars 9, 233
Hwang, Chao-Lung, Chao-Yin Lin and Shen-Sein Hong——Strategies of Using Fly Ash and Their Effect on Properties of Cement Mortar 9, 289
Hwang, Chyi——Combined Method Using Modified Routh Stability Array and MSE Criterion for the Reduction of Discrete-Time System, A 9, 647
Hwang, Chyi and Chee-Fai Yung——Reduced-Order Modeling of Linear Discrete-Time Systems Using Cauer Thirp Continued-Fraction Method 10, 283
Hwang, Chyi and Chee-Fai Yung——Transformation of Continuous-Time State Equations to Discrete-Time State Equations 8, 389
Hwang, Chyi and Hang-Chun Chow——Model Simplication of Stable Discrete-Time Systems by the Squared Magnitude Padé Approximation 9, 267
Hwang, Chyi and Muh-Yang Chen——Stable Linear System Reduction via a Multipoint Tangent Phase Continued-Fraction Expansion 10, 417
Hwang, Chyi and Yen-Ping Shih——Transformation of Cauer's Third Form Realized by Integrators, A 6, 57
Hwang, Chyi and Yen-Ping Shih——Transformation of State-Space Model to Jordan Continued Fraction Expansion Canonical Form, A 7, 291
Hwang, Chyi——Unified Algorithm for Inverting Continued Fractions, A 6, 197
Hwang, Chyi, see Hwang, Ruey-Yinn, 6, 169
Hwang, Dong-Chir, see Chang, Ching-Yuan, 10, 191
Hwang, Guang-Jyh and Min-June Lin——Natural Convection Effects on Laminar Heat Transfer in the Thermal Entrance Region of Horizontal Isothermal Tubes 8, 343
Hwang, Guang-Jyh, see Hong, Chain-Gee, 9, 203; Hong, Chain-Gee, 10, 129; Hong, Chain-Gee, 10, 217
Hwang, Huey-Liang, see Chen, Yuh-Chyoung, 10, 195; Kao, Yeh-Ren, 7, 233; Wang, Mei-Wen, 7, 287
Hwang, Jeng-Neng and Lin-Shan Lee——Dynamic Data Compression Algorithms in Speech Coding... 8, 261
Hwang, Kuo-An, see Chang, Chi-Keng, 10, 447
Hwang, Robert R. and Chia-Chi Yao——Semi-Implicit Numerical Model for Storm Surges, A 10, 463
Hwang, Robert R., Te-Pu Chiang and Mau-Tse Chiao——Time-Dependent Incompressible Viscous Flow Past a Circular Cylinder 9, 617

Hwang, Ruey-Yinn and Yen-Ping Shih——Parameter Identification of Discrete Systems via Discrete Chebyshev Transformation 8, 153
Hwang, Ruey-Yinn, Chyi Hwang and Yen-Ping Shih——Optimal Impulse Response Matching via the Residue Method for Model Reduction of Discrete Systems, An 6, 169
Hwang, Sheue-Ling——Human Supervistory Control in Flexible Manufacturing Systems: Allocation of Functions and System Size 10, 251
Hwang, Wang-Cheng, see Chen, Kang-Shin, 10, 485
Hwang, Wei-Yuan and Wen-Wu Liu——3D Static Analysis of Cable in Non-uniform Current 7, 159
Hwu, Jenn-Gwo and Way-Seen Wang——Direct Indication of Interface Trap States in an MOS Capacitor from the Peaks of Optical Illumination-Induced Capacitances 10, 329
Hwu, Jenn-Gwo, Way-Seen Wang and Yun-Leei Chiou——Relationship Between Mobile Charges and Interface Trap States in Silicon MOS Capacitors 9, 171
Hwung, H. H., see Tsai, Ching-Piao, 10, 233
Jan, Gwo-Jen, see Huang, Ying-Sheng, 9, 27
Jean, Feng-Reng, see Chou, Kan-Sen, 8, 305
Jenq, Fu-Tien and Jun-Chang Lee——Study on Particulate Air Pollution in Taipei, A 7, 81
Jiang, Biing-Lurng, see Chen, Rong-Her, 9, 345
Jou, Chorng-Shyr, see Chan, Kwan-Kit, 8, 423
Jou, Jong-Jhy——Linear Stability of a Binary Fluid Layer with Freezing 9, 141
Ju, Yi-Hsu and Wen-Chien Lee——Effects of Slip on Graetz Problem of Power Law Fluids with Second Kind Boundary Condition 7, 141
Ju, Yi-Hsu and Wen-Chien Lee——Solutions of Solid-Fluid Conjugated Problems with Applications in the Capillary Die Heat Transfer 8, 239
Juan, Jing-Chung and Lin-Shan Lee——Efficient Speech Coding Techniques by Simplified Orthogonal Transformation 8, 317
Juang, Hor-Da and Hung-Shan Weng——Computational Algorithm for Catalysis Experiencing Concentration-Dependent Deactivation, A 7, 77
Juang, Yau-Tarng, Chen-Fa Hsu, Te-Son Kuo and Jinn-Fwu Wu——Allowable Perturbations for the Stability Robustness of Systems with Uncertain Parameters 10, 665
Juang, Yau-Tarng, Chen-Fa Hsu, Te-Son Kuo and Sheng-De Wang——Frequency Domain Analysis for Stability Robustness of Multivariable Feedback Systems 10, 177
Jung, Wen-Lin——Modified Y-Parameter Model for Computer-Aided Analysis Using SPICE2, A 9, 157
Kao, Chiang——Model for Measuring Productive Efficiency, A 9, 251
Kao, Chii-Fang, see Liou, Tong-Miin, 10, 139
Kao, Shyh-Jye, see So, Hon, 10, 33
Kao, Yeh-Ren, Mei-Wen Wang, Huey-Liang Hwang and Cherng-Yuan Sun——Fabrication of $Pb_{1-x}Sn_xTe$/PbTe Heterojunctions by Liquid Phase Epitaxy 7, 233
Kao, Yeh-Ren, see Wang, Mei-Wen, 7, 287
Ko, Chih-Kuang, see Tsay, Sun-Yuan, 7, 265
Kong, Chin-Hwa——Internal waves in an Elliptical Channel 9, 547
Kong, William Chin-Hwa——Progressive Surface Waves in Elliptical Channel 9, 9
Kung, Fan-Chu, see Shen, Jing-Chung, 10, 209
Kuo, Jan-Tai and Feng-Rong Yang——Generation of Ten-Day Period Stream-flow of the Tanshui River Basin Using Disaggregation Models, The 10, 1
Kuo, Jen-Feng, see Chen, Chuh-Yung, 7, 171; Chen, Chuh-Yung, 9, 259
Kuo, Shu-Fun, see Shih, Yen-Shiang, 9, 485
Kuo, Te-Son, see Fong, I-Kong, 8, 373; Fong, I-Kong, 9, 179; Juang, Yau-Tarng, 10, 177; Juang, Yau-Tarng, 10, 665
Kuo, Wei-Han, see So, Hon, 9, 475
Kuo, Yi-Yu and Her-Yuan Chen——Pressure Characteristics of Random Water Waves, The 6, 1
Lai, Ching-Liang, see Chen, Kuo-Cheng, 7, 181
Lan, Chang-Ching and Tsung-Wu Lin——Design of Reinforced Concrete Plates Subject to Biaxial In-Plane Forces and Biaxial Moments 10, 399
Lay, Jenn-Chuan, see Tarn, Jiann-Quo, 10, 615
Lee, Chau-Jen, see Chung, Tze-Wen, 6, 51
Lee, Cheng-Chieh, see Chou, Tse-Chuan, 10, 441
Lee, Chi-Yuan——Design of Wastewater Treatment Pilot Plant and Operation Problems 6, 183
Lee, Fu-Tsai, see Lu, Shui-Shong, 9, 557
Lee, Horng-Yee, see Yen, Meng-Shung, 9, 587
Lee, Jun-Chang, see Jenq, Fu-Tien, 7, 81
Lee, Krystal Mingjer and Yen-Shiang Shih——Techno-Economic Evaluation and Sensitivity Analysis of an Energy-Recovery System 8, 85
Lee, Krystal M., see Shih, Yen-Shiang, 9, 485

Lee, Lin-Shan, see Chiu, Jung-Hui, 8, 397; Chiu, Jung-Hui, 9, 417; Chiu, Jung-Hui, 9, 527; Hwang, Jeng-Neng, 8, 261; Juan, Jing-Chung, 8, 317; Lei, Shaw-Min, 6, 107; Tsao, Hen-Wai, 7, 43
Lee, Ming-Lien, see Yang, Chien-Chiao, 9, 323
Lee, R. C. T., see Yang, Chang-Biau, 10, 691
Lee, Rong-Shean and Nan-Jiune Liang——Study on the Application of Circular Biarcs Fitting to Numerically Controlled Machining, A 7, 225
Lee, Sanboh——Elastic Stresses due to Homogeneous Inclusions with Long Elliptical Cylindrical Shape 8, 25
Lee, Shih-Tuen and Chau-Chih Chen——Transient Ignition on a Flat Plate 9, 391
Lee, Si-Chen and Shyh-Shi Chao——Percolation Process in High Conductivity Phosphorus Doped Amorphous Si:H:F Alloys 6, 245
Lee, Si-Chen, see Chen, Jiahn-Ann, 8, 311; Lin, Hao-Hsiung, 9, 317; Shieh, Ming-Huei, 8, 191
Lee, Ting-Yueh, see Chien, Shih-Chen, 8, 17
Lee, Tshung-Yee and Ching-Tien Liou——Transfer Coefficients on the Shell Progressive Poisoning Model 8, 231
Lee, Wei, see Liu, Cheng-Kuang, 10, 503
Lee, Wen-Chien, see Ju, Yi-Hsu, 7, 141; Ju, Yi-Hsu, 8, 239
Lee, Ya-Jung, see Lin, Huei-Jeng, 9, 59
Lee, Yu-Hua, Ing-Ruey Liao, Kan-Sen Chou and Min-Shyong Lin——Analysis of the Effect of Mass Transfer and Thermal Diffusion on the Growth Rate of CdTe by MOCVD 10, 391
Lei, Hin-Chi, see Hong, Hong-Ki, 9, 223
Lei, Shaw-Min and Lin-Shan Lee——Digital Synthesis of Mandarin Speech Using Its Special Characteristics 6, 107
Li, Chang-Chung——Application of Experimental Design—An Improvement of a Golden Mill, An ... 7, 207
Li-Hsueh-Jyh——Image Reconstruction of Microwave Tomograms 7, 25
Li, Hsueh-Jyh and Ming-Tzong Shieh——Microstrip Antenna Array Controlled with Active Phase Shifter 9, 633
Liang, Jenn, see Chang, Chin-Chen, 8, 157
Liang, Nan-Jiune, see Lee, Rong-Shean, 7, 225
Liann, Fwu-Ren and Shih-Chang Lin——Adaptive PID control Based on Explicit Criterion Minimization 9, 569
Liann, Fwu-Ren and Shih-Chang Lin——Method of System Identification with Deterministic Aperiodical Input, A 8, 143
Liao, Ching-Lung——Behavior of Reinforcing Bars Under Compression, The 9, 275
Liao, Ching-Lung——Unconditionally Stable Implicit Direct Integration Method for Linear Structural Dynamics, An 9, 333
Liao, Ching-Lung and Sheng-Taur Mau——Inelastic Post Buckling Behavior of Very Short Column... 8, 333
Liao, Ing-Ruey, see Lee, Yu-Hua, 10, 391
Liao, Wen-Chiuan, see Cheng, Fuhua, 9, 97
Lian, Yunn-Shiuan and Jin-Cheng Shen——Investigation of the Adaptability of Varying Spindle Speed Cutting on Turning Operations 10, 23
Liaw, Chang-Ming, Ching-Tsai Pan and Kuang-Wei Han——Limit Cycle Analysis of Power Systems...10, 263
Lin, Chan-Shing, see Chen, Kuo-Cheng, 8, 365
Lin, Chao-Yin——Design of Reinforced Concrete Panels Subjected to Combined Tension and Shear... 8, 405
Lin, Chao-Yin, see Hwang, Chao-Lung, 9, 233; Hwang, Chao-Lung, 9, 289
Lin, Cheng-Sheng, Yung-Yun Wang and Chi-Chao Wan——Electrochemical Reaction of Methyl Pyridinium Chloride in Acetonitrile, The 10, 385
Lin, Chun-J, see Chen, Chao-Wen, 8, 115; Chen, Chao-Wen, 8, 129
Lin, Hao-Hsiung and Si-Chen Lee——Determination of $Al_xGa_{1-x}As$ Bandgap by Schottky Barrier Spectral Response Measurement 9, 317
Lin, Hao-Hsiung, see Chen, Jiahn-Ann, 8, 311; Shieh, Ming-Huei, 8, 191
Lin, Hsiao-Tsung and June-Jye Chen——Forced Convection Heat Transfer from Concentrated and Distributed Thermal Sources 10, 681
Lin, Hsiao-Tsung, Wen-Shing Yu and Yen-Ping Shih——Unsteady Thermal Entrance Heat Transfer of Laminar Duct Flows with Wall Suction and Injection 10, 157
Lin, Huei-Jeng and Ya-Jung Lee——Study on the Dynamic Instability of Plate Structures..... 9, 59
Lin, Ing-Jaung and Eng-Muh Chang——Bond-Slip Characteristics for Reinforcing Bars under Repeated Pull Loading 8, 213
Lin, Ing-Jaung and Hou-Ming Sung——Load-Slip Relationships for Reinforcing Bars Subjected to a Monotonic Pull Loading 7, 101
Lin, Jeffrey, Hen-Wai Tsao and Jin-Fu Chang——Design of a Multi-Speed PSK MODEM, The 8, 171
Lin, Jenn-Nan, see Chou, Fu-Chu, 10, 709
Lin, Jiin-Ming, see Wu, Chwan-Chia, 10, 363

Lin, Jong-Lick and Wen-Tay Lin——Application of Variable-Structure System in DC-Motor Velocity-Control 10, 201
Lin, Kang-Ping and Soo-Chang Pei——Digital Signal Processing of Electrocardiograms by the Linear Predictive Method 8, 181
Lin, Kang-Ping, see Chang, Walter H., 10, 511
Lin, Min-June, see Hwang, Guang-Jyh, 8, 343
Lin, Min-Shyong, see Lee, Yu-Hua, 10, 391
Lin, Min-Tau, see Chen, Sin-Horng, 10, 555
Lin, Ming-Chung and Jiing-Yih Liou——Analytical Study of Wave-Induced Nearshore Currents 9, 437
Lin, Ming-Chung and Jyh-Cherng Wang——Model for Shoreline Evolution Around a River Mouth, A 6, 141
Lin, Ming-Chung and Yeong-Fang Chiou——Combined Wave Refraction and Diffraction near a Breakwater 8, 325
Lin, Nan-Chang, see Chen, Yung-Chang, 6, 153
Lin, Ping-Sien——Study on Engineering Properties of Compacted Lateritic Gravels, A 9, 533
Lin, San-Ton, see Tarn, Jiann-Quo, 9, 195
Lin, Shi-Chuan, Yang-Yih Chen and Shiao-Gwo Chang——Numerical Verification on a 90° Interior Crest Angle in Limiting Gravity Waves 10, 539
Lin, Shih-Chang and Ching-Hai Chen——Microprocessor-Based Electro-hydraulic Servo System, A 7, 55
Lin, Shih-Chang, see Liann, Fwu-Ren, 8, 143; Liann, Fwu-Ren, 9, 569
Lin, Tsann-Rou, see Chang, Walter H., 10, 511
Lin, Tsung-Wu, see Lan, Chaug-Ching, 10, 399
Lin, Wen-Tay, see Lin, Jong-Lick, 10, 201
Lin, Yang-Tai, see Lin, Zone-Ching, 10, 353
Lin, Zone-Ching, Fu-Siang Chang and Yung-Tai Lin——Effect of Tool Flank Wear on the Temperature Distribution of a Machined Workpiece 10, 353
Ling, Chi-Chiu, see Chen, Kuo-Cheng, 7, 187
Ling, Shih-Fu, see Tseng, Ching-Huan, 6, 201
Liou, Ching-Tien and Ching-Tien Yang——Asymptotic Stability of Quasi-Stationary Tracking Systems with Parameter Variations 9, 423
Liou, Ching-Tien and Feng-Sheng Wang——Solution of Low Peclet Number Heat Transfer with Viscous Dissipation in the Semi-Infinite Axial Region of a Tube via Functional Analytic Methods 9, 497
Liou, Ching-Tien and Feng-Sheng Wang——Solution of Low Peclet Number Heat Transfer with Viscous Dissipation in the Infinite Axial Region Between Parallel Plates via Functional Analytic Methods 9, 521
Liou, Ching-Tien and Min-Che Chuang——Study on Controller Tuning and Control Specifications, A 6, 219
Liou, Ching-Tien and Tsing-Yee Tu——Low-Sensitivity Controllers for Discrete-Time Systems 8, 381
Liou, Ching-Tien, Tsing-Yee Tu and Yung-Chun Wu——Design of Low Sensitivity Controllers: Frequency Domain Technique 8, 41
Liou, Ching-Tien, Tsing-Yee Tu and Yung-Chun Wu——Design of Low Sensitivity Controllers: Preregulator Approach 8, 49
Liou, Ching-Tien and Yi-Shyong Chou——Application of Orthogonal Functions in Analysis of Sturm-Liouville Eigenvalue Problems 9, 581
Liou, Ching-Tien and Yi-Shyong Chou——Modelling and Simulation of Non-Adiabatic Catalytic Fixed Bed Reactor 6, 99
Liou, Ching-Tien, Yi-Sui Chien and Wei-Shin Chen——Analysis of Chemical Reaction System with Non-Ideal Mixing 6, 127
Liou, Ching-Tien, see Chen, En-Tsung, 9, 69; Lee, Tshung-Yee, 8, 231
Liou, Jiing-Yih, see Lin, Ming-Chung, 9, 437
Liou, KanaLee, see Hsu, Yuan-Yih, 8, 135
Liou, Tong-Miin and Cheng-Hsin Liu——Turbulence Measurements in a 90° Square Duct Using Laser-Doppler Velocimetry 9, 19
Liou, Tong-Miin and Sing-Maw Wu——Effect of Aspect Ratio on the Air Flow in Curved 90° Ducts with Uuiform Inlet Condition, The 10, 147
Liou, Tong-Miin, Chii-F-ng Kao and Sing-Maw——Flow in a Rectangular Channel with Sudden Contraction and Expansion, The 10, 139
Liou, Yung-Chan, see Chen, Kuo-Cheng, 7, 181
Liu, Chang-Huan——Dynamics and Control of Robotic Manipulators, The 8, 201
Liu, Chang-Huan and Chen-Sheng Ting——Adaptive Control Strategy for Robotic Manipulators, An 8, 251
Liu, Chang-Huan, Ching-Chi Chen and Lian-Chen Chou——Microprocessor-Based Field Oriented Control of Current Source Inverter-Fed Induction Motor Drives 10, 53

Liu, Chang-Huan and Hsien-Chung Chang——Computer-Aided Design and Analysis of Three-Phase Induction Motors 8, 31
Liu, Chang-Huan, see Cheng, Kuen-Huei, 7, 245; Yang, Yau-Po, 8, 429
Liu, Cheng-Hsin, see Liou, Tong-Miin, 9, 19
Liu, Cheng-Kuang and Wei Lee——Current-Gain Degradation and Failure-Rate Prediction in Bipolar Prediction in Bipolar Junction Transistors 10, 503
Liu, Jen-Yu——Analysis of First-Order Partial Differential Equations via Shifted Chebyshev Polynomials 9, 301
Liu, Ta-Jo and Kuan-Chih Chen——Generalized Couette Flow in Channels of Irregular Cross-Section 10, 345
Liu, Tien-I——Design and Manufacture of an Optimum Face Milling Cutter, The..... 6, 189
Liu, Wen-Wu, see Hwang, Wei-Yuan, 7, 159
Liue, Jung-Chen, Yuh-Chyoung, 10, 195
Loh, Chin-Hsiung——Applications of Correlation and Spectral Analysis to Earthquake Data 9, 117
Loh, Chin-Hsiung and Kuo-Lung Peng——Identification of SMART-1 Array Data by Multilter Technique 8, 97
Lou, Ching-Hsing, Kuang-Tsan Wu and Jin-Fu Chang——Using Adaptive Equalizer to Improve the Performance of Partial Response Systems..... 6, 161
Lu, Shui-Shong, Pao-San Huang and Fu-Tsai Lee——Dynamic Characteristics of a Double-Row Multirecess Externally Pressurized Journal Bearing 9, 557
Lu, Shui-Shong, see Chung, Ya-Chien, 10, 241; Wang, Wen-Jieh, 10, 409
Lu, Wei-Ming and Hsuan Chen——Effect of Probe Orientation of Hot-Film/CTA Velocity Measurements in Stirred Tanks and a Simplified Measuring Method..... 9, 399
Lung, Tsuen-Ni——Generation of Feric Lixiviant by Bio-Oxidation of Pyrite for In-Situ Leaching... 7, 19
Ma, Chien-Ching——Dynamics Steady Crack Propagation of Antiplane Shear in an Elastic Perfectly Plastic Material 10, 657
Ma, Hak-Fong——Automated Reliability Analysis of Plastic Frameworks 8, 109
Maa, Jer-Ru, see Yang, Yu-Min, 6, 257
Mao, Jium-Yueh, see Chen, Chuh-Yung, 7, 171
Mau, Sheng-Taur, see Liao, Ching-Lung, 333
Mo, Yi-Lung——Moment Redistribution in Reinforced Concrete Frames..... 9, 105
Mo, Yi-Lung——Prediction of Moment Redistribution in Continuous Prestressed Concrete Beams..... 9, 281
Murtha, Mike J., see Chang, Ching-Yuan, 10, 295
Ong, How-Rang, see Wu, Wen-Teng, 6, 265
Pan, Ching-Tsai, see Liaw, Chang-Ming, 10, 263
Parng, Tai-Ming, see Sung, Tze-Yun, 10, 375; Sung, Tze-Yun, 10, 493
Pei, Soo-Chang and Chan- Lin Chen——Recursive Optimization Technique for the Design of 2D Half-Plane Recursive Digital Filters 7, 239
Pei, Soo-Chang, see Lin, Kang-Ping, 8, 181; Ren, Fan, 6, 39
Peng, Kuo-Lung, see Loh, Chin-Hsiung, 8, 97
Pwu, Cheng-Wen and Kuo-Shong Wang——Optimal Design of Solar Water Heating Systems, An..... 7, 11
Ren, Fan, Yen-Ping Shih, Soo-Chang Pei and Ruey-Tyng Guo——Parameter Identification of Bilinear Systems by Block Pulse Functions 6, 39
Sa, Dong-Lung, see Tarn, Jiann-Quo, 10, 647
Sang, Shyang-Ling, see Chen, Kuo-Cheng, 7, 181
Savery, C. William, see Hsieh, Shou-Shing, 9, 513
Shen, Jaw-Ji, see Chang, Chin-Chen, 8, 271
Shen, Jin-Cheng, see Liao, Yunn-Shiuan, 10, 23
Shen, Jing-Chung and Fan-Chu Kung——Identification of Linear Time-Invariant System with Deterministic Disturbances..... 10, 209
Sheu, Jang-Ping, see Chen, Wen-Tsuen, 10, 721
Shieh, Jiann-Cherng, see Chang, Chin-Chen, 8, 285
Shieh, Ming-Huei, Hao-Hsiung Lin, Si-Chen Lee and Yuin-Lei Chou——AlGaAs/BaAs Oxide-Stripe Double-Heterostructure Laser, An 8, 191
Shieh, Ming-Tzong, see Li, Hsueh-Jyh, 9, 641
Shieh, Schon-Youh, see Chen, Chuh-Yung, 9, 259
Shih, Yen-Ming——Application of Chebyshev Polynomials in Analysis and Identification of Linear Systems 6, 135
Shih, Yen-Ping and Sheng-Tsaing Tseng——Analytical Solutions of Delay-Differential Equations via a Time-Partition Method..... 10, 123
Shih, Yen-Ping, see Hwang, Chyi, 6, 57; Hwang, Chyi, 7, 291; Hwang, Ruey-Yinn, 6, 169; Hwang, Ruey-Yinn, 8, 153; Lin, Hsiao-Tsung, 10, 157; Ren, Fan, 6, 39
Shih, Yen-Shiang, see Lee, Krystal Mingjer, 8, 85; Chou, Chih-Chung, 9, 375

Shih, Yen-Shiang, Shu-Fun Kuo and Krystal M. Lee——Strategy for the Optimization and Economic Evaluation of an ORC System for Energy Recovery, A 9, 485
So, Hon. Jia-Yann Huang and George C. Tu——Effects of Corrosion on Fatigue Crack Propagation in 2024-T3 Aluminium, The 9, 465
So, Hon and Wei-Han Kuo——Life Prediction for 2024-T3 Aluminium Alloy Subjected to Corrosion Fatigue, The 9, 475
So, Hon, Shyh-Jye Kao and Chin-Rong Chen——Influence of Surface Roughness on the Starved Lubrication of Ball Bearings, The 10, 33
Soong, Chyi-Yeou and Sing Chu——Semi-Empirical Approach for the Prediction of AFT-body Drag of Supersonic Projectiles with Base Bleeding, A 6, 21
Steeb, W. H.——Driven Nonlinear Circuit and Chaotic Behaviour, On a 10, 717
Su, Don-Hsin, see Chang, Chin-Chen, 10, 99
Sun, Cherng-Yuan, see Kao, Yeh-Ren, 7, 233; see Wang, Mei-Wen, 7, 287
Sun, Yo-Yu——Doppler Effect and Its Influence on Low-Altitude CW Altimeters 7, 221
Sung, Hou-Ming, see Lin, Ing, Jaung, 7, 101
Sung, Tze-Yun, Tai-Ming Parng and Yu-Hen Hu——Doubly Pipelined CORDIC Array for Digital Signal Processing Algorithms 10, 375
Sung, Tze-Yun, Tai-Ming Parng and Yu-Hen Hu——High Performance VLSI CORDIC Algorithms, Architecture and Chip Design 10, 493
Sze, Cheng-Feng, see Hsieh, Jer-Guang, 10, 309
Tang, Fredrick L. W., see Tsai, Ching-Piao, 10, 233
Tarn, Jiann-Quo and Dong-Lung Sa——Hybrid Finite Strip Analysis of Multilayer Laminated Plates, A 10, 647
Tarn, Jiann-Quo and San-Ton Lin——Solutions of Plate Problems by Finite Strip Method with Orthogonal Collocation 9, 195
Tarn, Jiann-Quo and Yung-Ming Wang——Differential Scheme for Multiphase Composites: J. Overall Elastic Moduli, A 6, 73
Tarn, Jiann-Quo and Yung-Ming Wang——Differential Scheme for Multiphase Composites: II. Thermal Expansion Coefficients and Conductivities, A 6, 83
Tarn, Jiann-Quo and Yung-Ming Wang——Fundamental Solutions for Torsional Problems of a Cylindrical Anisotropic Elastic Medium 9, 1
Tarn, Jiann-Quo and Yung-Ming Wang——Fundamental Solutions for a Transversely Isotropic Elastic Space, A 10, 13
Tarn, Jiann-Quo and Yung-Ming Wang——Fundamental Solutions for Torsional Problems of Nonhomogeneous Transversely Isotropic Media 9, 187
Tarn, Jiann-Quo, Jenn-Chuan Lay and Yi-Bin Wang——Temperature Distribution in Steel Frames Exposed to a Fire Environment 10, 615
Ting, Chen-Sheng, see Liu, Chang-Huan, 8, 251
Tornt, Jih-Gaug, see Chen, Chuh-Yung, 9, 259
Tsai, Ching-Piao, Yang-Yih Chen, Frederick L. W. Tang and H. H. Hwung——New Approach to Analyze Nonlinear Standing Waves, A 10, 233
Tsai, Duei and Jin-Fu Chang——Performance Study of a Differential Adaptive Reservation Multiacess Technique for Data Transmissions 9, 595
Tsai, Mi-Ching, see Cheung, Kwok-Wai, 10, 75
Tsai, Ming-Fa, see Chen, Yung-Chang, 10, 67
Tsai, Pwu, see Chen, Wen-Hwa, 6, 9
Tsao, Hen-Wai, see Lin, Jeffrey, 8, 171
Tsao, Hen-Wai, Tung-Sen Cheng and Lin-Shan Lee——Design and Implementation of a High Efficiency TFM Digital Modem 7, 43
Tsao, Jia-Huey, see Chang, Hun-I, 9, 149
Tsay, Chung-Biau——Equations for Helical Gears with Pinion Circular Arc Teeth and Gear Involute Teeth 10, 45
Tsay, Sun-Yuan and Chih-Kuang Ko——Laminar Boundary Layer Heat Transfer Along a Moving Plate with Suction or Blowing 7, 265
Tseng, Ampere A.——Magnetohydrodynamic Poiseuille Flow Through a Porous Medium 6, 251
Tseng, Ching-Huan and Shih-Fu Ling——Defective Ball Bearing Detection Using Vibration Spectrum Pattern Recognition 6, 201
Tseng, Sen-Bin, see Huang, Ying-Sheng, 9, 27
Tseng, Sheng-Tsaing, see Shih, Yen-Ping, 10, 123
Tseng, Szu-Kung——Removal of Lindane from Water by Activated Carbon in the Bisolute Adsorption System 9, 365
Tszeng, Yun-Fong, see Weng, Hung-Shan, 10, 435
Tu, George C., see So. Hon, 9, 465

Tu, Tsing-Yee, see Lin, Jeffrey, 8, 171; Liou, Ching-Tien, 8, 41; Liou, Ching-Tien, 8, 49; Liou, Ching-Tien, 8, 381
Twu, Han-Chin, see Chiu, Rex Mao-Hsin, 7, 279
Tzen, Mu-Chun, see Chen, Wen-Tsuen, 10, 585
Ueng, Tzou-Shin——Dilatancy Rate for Evaluating Liquefaction Potential of Sands..... 9, 241
Wan, Chi-Chao, see Lin, Cheng-Sheng, 19, 385
Wang, Chun-Tsung——Impact Model for Motions of a High-Speed Planning Boat in Regular Waves, An..... 7, 197
Wang, Feng-Sheng, see Liou, Ching-Tien, 9, 497; Liou, Ching-Tien, 9, 521
Wang, Hsiao-Fan——Study of the Spatial Distribution of Transportation—An Alternative Approach and Evaluation, A 8, 223
Wang, Jiann-Jyh, see Chen, Rong-Her, 10, 639
Wang, Jyh-Cherng, see Lin, Ming-Chung, 6, 141
Wang, Kuo-Shong and Wei-Ren Chen——Dynamics of Clearance-Type Mechanical Seals 9, 127
Wang, Kuo-Shong, see Pwu, Cheng-Wen, 7, 11; Wang, Rong-Tyai, 8, 7
Wang, Long-Huei, see Chen, Kua-Cheng, 7, 181
Wang, Maw-Liang and Chih-Kao Chou——Application of Modified Laguerre Polynomials in Analysis of Stiff Equations 7, 133
Wang, Maw-Ling and Chon-Fon Chen——Optimization of Batch Crystallization Processes via Legendre Polynomials 7, 27
Wang, Maw-Ling and Rong-Yeu Chang——Solution of Partial Defferential Equation of Population Balance by Shifted Legendre Polynomials..... 6, 31
Wang, Maw-Ling and Song-Chiang Chen——Solution of population Balance Equation by Double Legendre Polynomial Transformation 6, 227
Wang, Maw-Ling, Rong-Yeu Chang and I-Yao Chung——Analysis of Laminar Newtonian Fluid Flowing Around Two Spheres in a Tandem Arrangement 10, 573
Wang, Maw-Ling, see Chang, Ron-Yeu, 6, 235; Chang, Ron-Yeu, 9, 75
Wang, Min-Jong, see Wang, Pao-Hsii, 9, 451
Wang, Mei-Wen, see Kao, Yeh-Ren, 7, 233
Wang, Mei-Wen, Yeh-Ren Kao, Huey-Liang Hwang and Cherng-Yuan Sun——Growth and Characterization of Vacuum Sublimed PbTe Crystals 7, 287
Wang, Pao-Hsii and Min-Jong Wang——Elasto-Plastic Large Displacement Analysis of Cable Systems 9, 451
Wang, Ray R.——Ventilation Flows in Laboratory Studies of Surface, Buoyant Discarges, For.....10, 305
Wang, Rong-Tyai nda Kuo-Shong Wang——Second Harmonic and 1/2 Subharmonic Excitation of Machine-Isolator-Floor Systems 8, 7
Wang, Sheng-De, see Juang, Yau-Tarng, 10, 177
Wang, Sung-Bin and Kenneth Y. Chen——Bitterns as Coagulants for Treatment of Color Effluents... 7, 109
Wang, Way-Seen, see Hwu, Jenn-Gwo, 9, 171; Hwu, Jenn-Gwo, 10, 429
Wang, Wen-Jieh, Chen-Fa Hsu and Shui-Shong Lu——Output Feedback Control with Optimal Gains for a One-Link Flexible Robot Arm 10, 409
Wang, Yi-Bin, see Tarn, Jiann-Quo, 10, 615
Wang, Yung-Ming, see Tarn, Jiann-Quo, 6, 73; Tarn, Jiann-Quo, 6, 83; Tarn, Jiann-Quo, 9, 1; Tarn, Jiann-Quo, 9, 187; Tarn, Jiann-Quo, 10, 13
Wang, Yung-Yun, see Lin, Cheng-Sheng, 10, 385
Wei, Chen-Chi, see Chiu, Rex Mao-Hsin, 9, 307
Wei, Che-Ho, see Chiu, Yi-Yung, 10, 115
Weng, Hung-Shan and Yuh-Fong Tszeng——Transient Diffusion Through a Porous Plate Between Two Compartments 10, 435
Wen, Ue-Pyng——Solution Procedure for the Resource Control Problem in Two Level Hierarchical Decision Processes, A 6, 91
Weng, Hung-Shan, see Juang, Hor-Da, 7, 77
Wijeysundera, Nihal E., see Hsieh, Shou-Shing, 9, 513
Wong, King-Leung and Cha'o-Kuang Chen——Finite Element Solutions for Laminar Flow and Heat Transfer Around a Square Prism 9, 605
Wu, Chi-Jui, see Hsu, Yuan-Yih, 9, 89; Hsu, Yuan-Yih, 10, 167
Wu, Chwan-Chia——Concurrent Error Correction in Unidirectional Linear Arrays.....10, 225
Wu, Chwan-Chia——Diagnosibility of Nonlinear Fault Diagnosis with Multiple Test Vectors 9, 51
Wu, Chwan-Chia——Two-Phase Testing Technique for Analog Fault Diagnosis Systems, A 9, 213
Wu, Chwan-Chia and Jiin-Ming——Derivation of the Internal Relations of an Analog Circuits via Sensitivity Approach.....10, 363
Wu, Chwan-Chia, see Chen, Da-Hong, 10, 597; Cheng, Chyun-Shin, 10, 453
Wu, Ho-Ting, see Wu, Jean-Lien C., 10, 605

Wu, Jean-Lien C., Jingshown Wu and Ho-Ting Wu——Study on the Interconnection of Slotted Random Access Networks, A 10, 605
Wu, Jingshown, see Wu, Jean-Lien C., 10, 605
Wu, Jinn-Fwu, see Juang, Yau-Tarng, 10, 665
Wu, Juan-Yih, see Chen, Kuo-Cheng, 8, 365
Wu, Kaung-Hsiung——Fabrication of a Kilowatt Transverse Electrical Discharge CO_2 Laser, The ... 8, 57
Wu, Kuang-Tsan, see Lou, Ching-Hsing, 6, 161
Wu, Lai-Yun——Stability Analysis of Arbitrary Shape Landslope by Variational Calculus and Finite Difference Method 10, 473
Wu, Min-Yen, see Fong, I-Kong, 8, 373; Fong, I-Kong, 9, 179
Wu, Ruey-Beei and Chun-Ming——Peak Height Estimation of the Equatorial F2 Layer 7, 119
Wu, Sheng-Chang, see Hsiue, Ging-Ho, 8, 357
Wu, Sing-Maw, see Liou, Tong-Miin, 10, 139; Liou, Tong-Miin, 10, 147
Wu, Wei-Chiao, see Chen, Keh-Jiann, 9, 431
Wu, Wen-Teng and How-Rang Ong——Functional Approximation for Inversion of Laplace Transforms, On a 6, 265
Wu, Wen-Teng and Jenn-Chien Chou——Parameter Identification of Systems with Unmeasured Disturbances 7, 127
Wu, Wen-Teng, see Chen, Rong-Liang, 10, 567
Wu, Yih-Yih, see Cheng, Chyun-Shin, 10, 453
Wu, Yung-Chun, see Liou, Ching-Tien, 8, 41; Liou, Ching-Tien, 8, 49
Yang, Chang-Biau and R. C. T. Lee——Systolic Algorithms for the Longest Common Subsequence Problem 10, 691
Yang, Chien-Chiao and Ming-Lien Lee——Approach to the Implementation and Verification of Abstract Data, An 9, 323
Yang, Chien-Chiao, see Chang, Kai-Cheng, 9, 37; Chen, Keh-Jiann, 9, 431
Yang, Ching-Tien, see Liou, Ching-Tien, 9, 423
Yang, Feng-Rong, see Kuo, Jan-Tai, 10, 1
Yang, Kuan-Hsiung, see Chen, Kang-Shin, 10, 485
Yang, Spring-Zu, see Huang, Yinn-Nien, 9, 641
Yang, Yau-Po and Chang-Huan Liu——Microcomputer Loop Communication Network Design 8, 429
Yang, Yu-Min and Jer-Ru Maa——Photographic Study of Bubble Coalescence 6, 257
Yao, Chia, see Hwang, Robert R., 10, 463
Yeh, Hsuan-Hsien and Jyh-Ming Chen——Effect of Preozonation on Organics Coagulation Removal from Water 10, 335
Yen, Meng-Shung and Horng-Yee Lee——Aggregative Effect of Acid Dyestuff (Orange II) on the Activation Energy of Wool Dyeing, The 9, 587
Yilbas, Bekir Sami and Zahide Yilbas——Study of Parameters Affecting the Continuous CO_2 Laser Cuts, A 10, 543
Yilbas, Zahide, see Yilbas, Bekir Sami, 10, 543
Yin, Fu-Shiow, see Chen, Kuo-Cheng, 7, 187
Yu, Wen-Shing, see Lin, Hsiao-Tsung, 10, 157
Yung, Chee-Fai, see Hwang, Chyi, 8, 389; Hwang, Chyi, 10, 283

SUBJECT INDEX (Vol. 6-10)

Ablation Problem in a Finite Medium with Time-Dependent Heat Flux, An——Jir-Ming Char 7, 211
Absorption with Chemical Reaction: The Film Theory Model, The Effect of Interfacial Resistance on Gas——Ching-Yuan Chang, Dong-Chir Hwang and Chu-Liang Deng 10, 191
Abstract Data, An Approach to the Implementation and Verification of——Chien-Chiao Yang and Ming-Lien Lee 9, 323
Acrylonitrile, Acetonitrile, and Water, Viscosities of Binary and Ternary Systems of——Rex Mao-Hsin Chiu, Han-Chin Twu and Chi-Tsung Huang 7, 279
Acrylonitrile, Salt Effect of Lithium Bromide on the Solution Polyerization of——Chuh-Yung Chen, Jen-Feng Kuo, Schon-Youh Shieh and Jih-Gang Tornt 9, 259
Activation Energy of Wool Dyeing, The Aggregative Effect of Acid Dyestuff (Orange II) on the——Meng-Shung Yen and Horng-Yee Lee 9, 587
Active Filter Using Generalized-Immittance Converter Biquads, Design of a Universal——Shao-Shiu Chung 6, 43
Adaptability of Varying [Spindle Speed Cutting on Turning Operations, Investigation of the—— Yunn-Shiuan Liao and Jin-Cheng Shen 10, 23
Adaptive Control Strategy for Robotic Manipulators, An——Chang-Huan Liu and Chen-Sheng Ting 8, 251

Adaptive Controller with Optimal Quadratic Pole and Zero Assignment, An——Kwok-Wai Cheung and Mi-Ching Tsai 10, 75
Adaptive Equalizer to Improve the Performance of Partial Response Systems, Using——Ching-Hsing Lou, Kuang-Tsan Wu and Jin-Fu Chang 6, 161
Adaptive PID Control Based on Explicit Criterion Minimization——Fwu-Ren Liann and Shih-Chang Lin 9, 569
Aerosol Generator, The Design and Fabrication of a Monodisperse——Kwan-Kit Chan and Long-Jen Chen 7, 271
AFT-Body Drag of Supersonic Projectiles with Base Bleeding, A Semi-Empirical Approach for the Prediction of——Chyi-Yeou Soong and Sing Chu 6, 21
Agglomeration on the Results from Two Different Size Measuring Instruments, Effect of Particle——Kan-Sen Chou and Feng-Renn Jean 8, 305
Aggregative Effect of Acid Dyestuff (Orange II) on the Activation Energy of Wool Dyeing, The——Meng-Shung Yen and Horng-Yee Lee 9, 587
Air Gap with the Effect of Armature Reaction, Numerical Analysis of Magnetic Field Distribution in an——Chain-Gee Hong and Guang-Jyh Hwang 10, 129
Air Gap with the Effects of Slot Depth and Width, Numerical Analysis of Magnetic Field Distribution in an——Chain-Gee Hong and Guang-Jyh Hwang 9, 203
Air Pollution in Taipei, A Study on Particulate——Fu-Tien Jenq and Jun-Chang Lee 7, 81
AlGaAs/GaAs Oxide-Stripe Double-Heterostructure Laser, An——Ming-Huei Shieh, Hao-Hsiung Lin, Si-Chen Lee and Yuin-Lei Chiou 8, 191
AlGaAs V-Groove Channeled Substrate Buried Heterostructure Laser Diodes——Jiahn-Ann Chen, Si-Chen Lee and Hao-Hsiung Lin 8, 311
$Al_xGa_{1-x}As$ Bandgap by Schottky Barrier Spectral Response Measurement, Determination of——Hao-Hsiung Lin and Si-Chen Lee 9, 317
Algorithms of Interpolations for a Computer Numerical Control System, New——Yung-Chang Chen... 8, 437
Allocation of Functions and System Size, Human Supervisory Control in Flexible Manufacturing Systems——Sheue-Ling Hwang 10, 251
Altimeters, Doppler Effect and Its Influence on Low-Altitude CW——Yo-Yu Sun 7, 221
Aluminum Alloy Subjected to Corrosion Fatigue, The Life Prediction for 2024-T3——Hon So and Wei-Han Kuo 9, 475
Amorphous Si:H:F Alloys, Percolation Process in High Conductivity Phosphorus Doped——Si-Chen Lee and Shyh-Shi Chao 6, 245
Analog Circuits: The Self-Testing Approach, Automatic Test Program Generation for——Chyun-Shin Cheng, Yih-Yih Wu, Da-Hong Chen and Chwan-Chia Wu 10, 453
Analysis and Identification of Linear Systems, Application of Chebyshev Polynomials in——Yen-Min Shih 6, 135
Antiplane Shear in an Elastic Perfectly Plastic Material, Dynamics Steady Crack Propagation of——Chien-Ching Ma 10, 657
Armature Reaction, Numerical Analysis of Magnetic Field Distribution in an Air Gap with the Effect of——Chain-Gee Hong and Guang-Jyh Hwang 10, 129
Artistic Chinese Fonts, A Computer Aided Design System for——Keh-Jiann Chen, Chien-Chiao Yung and Wei-Chiao Wu 9, 431
Aspect Ratio on the Air Flow in Curved 90° Ducts with Uniform Inlet Condition, The Effect of——Tong-Miin Liou and Sing-Maw Wu 10, 147
Automated Reliability Analysis of Plastic Frameworks——Hak-Fong Ma 8, 109
Automatic Test Program Generation for Analog Circuits: The Self-Testing Approach——Chyun-Shin Cheng, Yih-Yih Wu, Da-Hong Chen and Chwan-Chia Wu 10, 453
B-Spline and Bézier Curves, Flexible Subdivision Theorems for——Fuhua Cheng and Wen-Chiuan Liao 9, 97
Ball Bearing Detection Using Vibration Spectrum Pattern Recognition, Defective——Ching-Huan Tseng and Shih-Fu Ling 6, 201
Ball Bearings, The Influence of Surface Roughness on the Starved Lubrication of——Hon So, Shyh-Jye Kao and Chin-Rong Chen 10, 33
Bars under Repeated Pull Loading, Bond-Slip Characteristics for Reinforcing——Ing-Jaung Lin and Eng-Mhu Chang 8, 213
Base Bleeding, A Semi-Empirical Approach for the Prediction af AfT-Body Drag of Supersonic Projectiles with——Chyi-Yeou Soong and Sing Chu 6, 21
Batch Crystallization Processes via Legendre Polynomials, Optimization of——Maw-Ling Wang and Chon-Fon Chen 7, 27
Biarcs Fitting to Numerically Controlled Machining, A Study on the Application of Circular——Rong-Shean Lee and Nan-Jiune Liang 7, 225
Biaxial In-Plane Forces and Biaxial Moments, Design of Reinforced Concrete Plates Subject to——Chaug-Ching Lan and Tsung-Wu Lin 10, 399

Bilinear Systems by Block Pulse Functions, Parameter Identification of——Fan Ren, Yen-Ping Shih, Soo-Chang Pei and Ruey-Tyng Guo 6, 39
Binary Fluid Layer with Freezing, Linear Stability of a——Jong-Jhy Jou 9, 141
Bio-Oxidation of Pyrite for In-Situ Leaching, Generation of Feric Lixiviant by——Tsuen-Ni Lung... 7, 19
Bipolar Junction Transistors, Current-Gain Degradation and Failure-Rate Prediction in——Cheng-Kuang Liu and Wei Lee 10, 503
Bit-Sliced Systems with Redundancy in Time, Error Correction in——Da-Hong Chen and Chwan-Chia Wu 10, 597
Bitterns as Coagulants for Treatment of Color Effluents——Sung-Bin Wang and Kenneth Y. Chen... 7, 109
Blast Furnace I: Longitudinal Distributions of the Process Viriables, A Mathematical Modeling of the Iron——Cháo-Wen Chen and Chun-I Lin..... 8, 115
Blast Furnance II: The Effects of Changes of Operating Conditions, A Mathematical of the Iron——Cháo-Wen Chen and Chun-I Lin..... 8, 129
Blast-Furnace Slag-Cement Mortars, Strength Development of Blended——Chao-Lung Hwang and Chao-Yin Lin 9, 233
Block Pulse Functions, Parameter Identification of Bilinear Systems by——Fan Ren, Yen-Ping Shih, Soo-Chang Pei and Rury-Tyng Guo 6, 39
Blood Flow Phenomena on Oxygenation Efficiency, The Effect of——Tze-Wen Chung and Chau-Jen Lee 6, 51
Blowing and Suction, Laminar Free Convection Over a Horizontal Circular Cylinder with——Ming-Jer Huang and Cha'o-Kuang Chen 6, 209
Bond-Slip Characteristics for Reinforcing Bars under Repeated Pull Loading——Ing-Jaung Lin and Eng-Muh Chang..... 8, 213
Bracing Manipulator, Modeling and Optimal Control of a Lightweight——Ya Chien Chung, Shui-Shong Lu and Wayne J. Book 10, 241
Breakwater, Combined Wave Refraction and Diffraction Near a——Ming-Chung Lin and Yeong-Fang Chiou 8, 325
Bubble Coalescence, Photographic Study of——Yu-Min Yang and Jer-Ru Maa..... 6, 257
Buckling Behavior of Very Short Column, Inelastic Post——Ching-Lung Liao and Sheng-Taur Mau... 8, 333
Buoyant Discharges, For Ventilation Flows in Laboratory Studies of Surface——Ray R. Wang.....10, 305
Buried Heterostructure Laser Diodes, AlGaAs/GaAs V-Groove Channeled Substrate——Jiahn-Ann Chen, Si-Chen Lee and Hao-Hsiung Lin 8, 311
Cable Systems, Elasto-Plastic Large Displacement Analysis of——Pao-Hsii Wang and Ming-Jong Wang 9, 451
Carter Coefficient in a Curved Air Gap, A Numerical Prediction of——Chain-Gee Hong and Guang-Jyh Hwang.....10, 217
Cartesian Product Files for Orthogonal Range Queries, Optimal——Chin-Chen Chang and Syh-Shyan Chang 10, 727
Catalysis Experiencing Concentration-Dependent Deactivation, A Computational Algorithm for——Hor-Da Juang and Hung-Shan Weng..... 7, 77
Catalyst Deactivation by Surface Poisoning in a Plug Flow Reactor——Yu-Wen Chen and Charles M. Ablow 10, 183
Catalyst, Effect of Pore Diffusion on the Rate of Mathanation Reaction in a Heterogeneous——Yu-Wen Chen..... 8, 299
Catalytic Fixed Bed Reactor, Modeling and Simulation of Non-Adiabatic——Chign-Tien Liou and Yi-Shyong Chou..... 6, 99
Cauer's Third Form Realized by Integrators, A Transformation of——Chyi Hwang and Yen-Ping Shih..... 6, 57
Cement Mortar, Strategies of Using Fly Ash and Their Effect on Properties of——Chao-Lung Hwang, Chao-Yin Lin and Shen-Sein Hong..... 9, 289
Channel Imbalance Phenomena and Error Bias Analysis in PN Code Tracking Loop, The——Yung-Dar Huang 8, 67
Channel, Internal Waves in an Elliptical——Chin-Hwa Kong 9, 547
Channel with Sudden Contraction and Expansion, The Flow in a Rectangular——Tong-Miin Liou, Chii-Fang Kao and Sing-Maw Wu.....10, 139
Chaotic Behavior, On a Driven Nonlinear Circuit and——W. H. Steeb.....10, 717
Chebyshev Polynomials, Analysis of First-Order Partial Differential Equations via Shifted——Jen-Yu Liu 9, 301
Chebyshev Polynomials in Analysis and Identification of Linear Systems, Application of——Yen-Min Shih 6, 135
Chinese Fonts, A Computer Aided Design System for Artistic——Keh-Jiann Chen, Chien-Chiao Yang and Wei-Chiao Wu 9, 431
CO^{3+} Catalyst in the Synthesis of Organic Peroxides, Comparison of the Homogeneous and the Heterogenizing Homogeneous——Tse-Chuan Chou, Bing-Joe Hwang and Cheng-Chieh Lee.....10, 441

CO_2 Laser Cuts, A Study of Parameters Affecting the Continuous——Bekir Sami Yilbas and Zahide Yilbas 10, 543
CO_2 Laser, The Fabrication of a Kilowatt Transverse Electrical Discharge——Haung-Hsiung Wu ... 8, 57
Coagulation Removal from Water, Effect of Preozonation on Organics——Hsuan-Hsien Yeh and Jyh-Ming Chen 10, 335
Coalescence, Photographic Study of Bubble——Jer-Ru Maa and Yu-Min Yang 6, 257
Cobaltous Ion Catalyst, Oxidation of Sulphite at Higher Concentration of——Bing-Joe Hwang, Tse-Chuan Chou and Kung-Ming Hong 10, 531
Code Tracking Loops, The Channel Imbalance Phenomena and Error Bias Analysis in PN——Yung-Dar Huang 8, 67
Coding, Dynamic Data Compression Algorithms in Speech——Jeng-Neng Hwang and Lin-Shan Lee... 8, 261
Coding Techniques by Simplified Orthogonal Transformation, Efficient Speech——Jing-Chung Juan and Lin-Shan Lee 8, 317
Cogeneration System in Processes, Optimum Design of a——Chih-Chung Chou and Yen-Shiang Shih 9, 375
Color Effluents, Bitterns as Coagulants for Treatment of——Sung-Bin Wang and Kenneth Y. Chen... 7, 109
Column, Inelastic Post Buckling Behavior of Very Short——Ching-Lung Liao and Sheng-Taur Mau... 8, 333
Combined Wave Refraction and Diffraction Near a Breakwater——Ming-Chung Lin and Yeong-Fang Chiou 8, 325
Combustion Efficiency of a Liquid Propellant Rocket Motor, Effects of Size Distribution on the——Kwan-Kit Chan and Long Chyn 8, 411
Communication Network Design, Microcomputer Loop——Yau-Po Yaug and Chang-Huan Liu..... 8, 429
Communications, Direct Sequence Voice Scrambling Scheme—A New Technique for Secure——Jung-Hui Chiu and Lin-Shan Lee 8, 397
Compacted Soils Under Uudrained Shear Condition, A Constitutive Model for Saturated——Rong-Her Chen and Jiann-Jyh Wang..... 10, 639
Compression, The Behavior of Reinforcing Bars Under——Ching-Lung Liao..... 9, 275
Computational Algorithm for Catalysis Experiencing Concentration-Dependent Deactivation, A——Hor-Da Juang and Hung-Shan Wang..... 7, 77
Computer Aided Design System for Artistic Chinese Fonts, A——Keh-Jiann Chen, Chien-Chiao Yang and Wei-Chiao Wu 9, 431
Computer Control Techniques Applied to a Double Pipe Heat Exchanger, An Experimental Study of On-Line——Hun-I Chang and Jia-Huey Tsao 9, 149
Computer Numerical Control System, New Algorithms of Interpolations for a——Yung-Chang Chen... 8, 437
Computer Simulator for Concurrent Processors, A——Chi-Keng Chang and Kuo-An Hwang 10, 447
Concerete Structures Subjected to Impact Loading, The Multiaxial Constitutive Law for——Jenn-Chuan Chern and Ching-Huei Chen 10, 625
Concurrent Processors, A Computer Simulation for——Chi-Keng Chang and Kuo-An Hwang 10, 447
Conductivity, A Differential Scheme for Multiphase Composites: II. Thermal Expansion Coefficients and——Jiann-Quo Tarn and Yung-Ming Wang 6, 83
Confined Air-Water Jet, Flow Field Measurements and Physical Processes in——Shou-Shing Hsieh, Nihal E. Wijeysundera and C. William Savery 9, 513
Constitutive Equation of a Rotational Deformable Object, Rotary Effect on the——Hong-Ki Hong and Lei Hin-Chi..... 9, 223
Constitutive Law for Concrete Structures Subjected to Impact Loading, The Multiaxial——Jenn-Chuan Chern and Ching-Huei Chen 10, 625
Constitutive Model for Saturated Compacted Soils Under Undrained Shear Condition, A——Rong-Her Chen and Jiann-Jyh Wang..... 10, 639
Constraints, Generalized Geometric Programming with Both Equality and Inequality——Yun-Kung Chung..... 6, 269
Continued Fractions, A Unified Algorithm for Inverting——Chyi Hwung 6, 197
Continuous-Time State Equations to Discrete-Time State Equations, Transformation of——Chyi Hwang and Chee-Fai Yung 8, 389
Contraction and Expansion, The Flow in a Rectangular Channel with Sudden——Tong-Miin Liou, Chii-Fang Kao and Sing-Maw Wu..... 10, 139
Control in an MRP System, The Techniques of Progress Monitoring and Priority——Tsung-Shin Hsu 8, 75
Control of Robotic Manipulators, The Dynamics and——Chang-Huan Liu..... 8, 201
Control Strategy for Robotic Manipulators, An Adaptive——Chang-Huan Liu and Chen-Sheng Ting... 8, 251
Controller Tuning and Control Specifications, A Study on——Ching-Tien Liou and Min-Che Chuang... 6, 219
Controllers for Discrete-Time Systems, Low-Sensitivity——Ching-Tien Liou and Tsing-Yee Tu 8, 381
Controllers: Frequency Domain Technique, Design of Low Sensitivity——Ching-Tien Liou, Tsing-Yee Tu and Yung-Chun Wu..... 8, 41

Controllers on Power System Dynamic Stability, Effect of Power System Stabilizers and Load Frequency Controllers on——Chung-Yu Hsu, Li-Ming Chen, Kan-Lee Liou and Yuan-Yih Hsu... 8, 135
Controllers: Preregulator Approach, Design of Low Sensitivity——Ching-Tien Liou, Tsing-Yee Tu and Yung-Chun Wu... 8, 49
Convection Effects on Laminar Heat Transfer in Thermal Entrance Region of Horizontal Isothermal Tubes, Natural——Guang-Jyh Hwang and Ming-June Lin... 8, 343
Convection Over a Horizontal Circular Cylinder with Blowing and Suction, Laminar Free—— Ming-Jer Huang and Cha'o Kuang Chen ... 6, 209
CORDIC Algorithms, Architecture and Chip Design, High Performance VLSI——Tze-Yun Sung, Tai-Ming Parng and Yu-Hen Hu...10, 493
CORDIC Array for Digital Signal Processing Algorithms, Doubly Pipelined——Tze-Yun Sung, Tai-Ming Parng and Yu-Hen Hu...10, 375
Correlated Queues Under Three Service Disciplines in Discrete-Time Environment, Polling of Two——Chie Dou and Jin-Fu Chang... 9, 405
Corrosion Fatigue, The Life Prediction for 2024-T3 Aluminium Allow Subjected to——Hon So and Wei-Han Kuo ... 9, 475
Corrosion on Fatigue Crack Propagation in 2024-T3 Aluminium, The Effects of——Hon So, Jia-Yann Huang and George C. Tu ... 9, 465
Coupling Relations of an Analog Circuits via Sensitivity Approach, Derivation of the Internal—— Chwan-Chia Wu and Jiin-Ming Lin ...10, 363
Crack Propagation in 2024-T3 Aluminium, The Effects of Corrosion on Fatigue——Hon So, Jia-Yann Huang and George C. Tu ... 9, 465
Crack Propagation of Antiplane Shear in an Elastic Perfectly Plastic Material, Dynamics Steady——Chien-Ching Ma...10, 657
Current-Gain Degradation and Failure-Rate Prediction in Bipolar Junction Transistors——Cheng-Kuang Liu and Wei Lee...10, 503
Curved 90° Ducts with Uniform Inlet Condition, The Effect of Aspect Ratio on the Air Flow in——Tong-Miin Liou and Sing-Maw Wu ...10, 147
Curved Air Gap, A Numerical Prediction of Carter Coefficient in a——Dhai-Gee Hong and Guang-Jyh Hwang...10, 217
Cylinder, Time-Dependent Incompressible Viscous Flow Past a Circular——Robert R. Hwang, Te-Pu Chiang and Mau-Tse Chiao... 9, 617
Data Compression Algorithms in Speech Coding, Dynamic——Jeng-Neng Hwang and Lin-Shan Lee... 8, 261
Data Transmissions, Performance Study of a Differential Adaptive Reservation Multiaccess Technique for——Duei Tsai and Jin-Fu Chang... 9, 595
Database Machine with Efficient Join Operation, A Pipelined——Wen-Tsuen Chen, Yung-Chen Hung and Mu-Chun Tzen ...10, 585
Deactivation, A Computational Algorithm for Catalysis Experiencing Concentration Dependent—— Hor-Da Juang and Hung-Shan Weng... 7, 77
Delay Systems without Time Partition, Analysis of the——Wen-Liang Chen... 6, 61
Delay-Differential Equations via a Time-Partition Method, Analytical Solutions of——Yen-Ping Shih and Sheng-Tsaing Tseng ...10, 123
Design for a Programmable Digital Filter, A Bit-Sliced——Yung-Chang Chen and Nan-Chang Lin... 6, 153
Design of a Multi-Speed PSK MODEM, The——Jeffrey Lin, Hen-Wai Tsao and Jin-Fu Chang 8, 171
Design of low Sensitivity Controllers: Frequency Domain Technique——Ching-Tien Liou, Tsing-Yee Tu and Yung-Chun Wu... 8, 41
Design of Low Sensitivity Controllers: Preregulator Approach——Ching-Tien Liou, Tsing-Yee Tu and Yung-Chun Wu... 8, 49
Design of Reinforced Concrete Panels Subjected to Combined Tension and Shear——Chao-Yin Lin... 8, 405
Design of Reinforced Concrete Plates Subject to Biaxial In-Plane Forces and Biaxial Moments—— Chaug-Ching Lan and Tsung-Wu Lin ...10, 399
Design of Wastewater Treatment Pilot Plant and Operation Problems——Chi-Yuan Lee ... 6, 183
Deterministic Aperiodical Input, A Method of System Identification with——Fwu-Ren Liann and Shih-Chang Lin ... 8, 143
Deterministic Disturbances, Identification of Linear Time-Invariant System with——Jing-Chung Shen and Fan-Chu Kung...10, 209
Differential Adaptive Reservation Multiaccess Technique for Data Transmissions, Performance Study of a——Duei Tsai and Jin-Fu Chang ... 9, 595
Diffraction, Finite/Infinite Element Analysis of Wave——Min-Chih Huang ... 8, 1
Diffraction Near a Breakwater, Combined Wave Refraction and——Ming-Chung Lin and Yeong-Fang Chiou ... 8, 325
Diffusion of Alcohol-Benzene Mixtures in Dowex MSC-1, Sorption and——Shih-Chen Chien and Ting-Yueh Lee ... 8, 17

Digital Adaptive Filter Using Distributed Arithmetic, On the Realization of Multimemory Block Structure——Yi-Yung Chiu and Che-Ho Wei....10, 115
Digital Filter, A Bit-Sliced Design for a Programmable——Yung-Chang Chen and Nan-Chang Lin... 6, 153
Digital Filters, Recursive Optimization Technique for the Design of 2D Half-Plane Recursive——Soo-Chang Pei and Chan-Lin Chen 7, 239
Digital PN Signal Correlator with Improved Performance, A——Jung-Hui Chiu and Lin-Shan Lee... 9, 527
Digital Power System Stabilizer, Application of the Parameter Plane Method to the Design of a——Yuan-Yih Hsu and Chi-Jui Wu....10, 167
Digital Signal Processing Algorithms, Doubly Pipelined CORDIC Array for——Tze-Yun Sung, Tai-Ming Parng and Yu-Hen Hu....10, 375
Digital Signal Processing of Electrocardiograms by the Linear Predictive Method——Kang-Ping Lin and Soo-Chang Pei.... 8, 181
Digital Synthesis of Mandarin Speech Using Its Special Characteristics——Shaw-Min Lei and Lin-Shan Lee 6, 107
Dilatancy Rate for Evaluating Liquefaction Potential of Sands——Tzou-Shin Ueng 9, 241
Direct Sequence Voice Scrambling Scheme—A New Technique for Secure Communications——Jung-Hui Chiu and Lin-Shan Lee 8, 397
Disaggregation Models, The Generation of Ten-Day Period Streamflow of the Tanshui River Basin Using——Jan-Tai Kuo and Feng-Rong Yang 10, 1
Discrete Systems, An Optimal Impulse Response Matching via the Residue Method for Model Reduction——Ruey-Yinn Hwang, Chyi Hwang and Yen-Ping Shih.... 6, 169
Discrete Systems via Discrete Chebyshev Transformation, Parameter Identification of——Ruey-Yinn Hwang and Yen-Ping Shih.... 8, 153
Discrete-Time State Equations, Transformation of Continuous-Time State Equations to——Chyi Hwang and Chee-Fai Yung 8, 389
Discrete-Time Systems, A Combined Method Using Modified Routh Stability Array and MSE Criterion for the Reduction of——Chyi Hwang.... 9, 647
Discrete-Time Systems by the Squared Magnitude Padé Approximation, Model Simplification of Stable——Chyi Hwang and Hang-Chun Chow.... 9, 267
Discrete-Time Systems, Low-Sensitivity Controllers for——Ching-Tien Liou and Tsing-Yee Tu 8, 381
Discrete-Time Systems Using Cauer Third Continued-Fraction Method, Reduced-Order Modeling of Linear——Chyi Hwang and Chee-Fai Yung 10, 283
Disk Modulo Allocation Method for Concurrent Accessing on Multiple Disk Systems, Performance Analysis of the——Chin-Chen Chang and Jaw-Ji Shen 8, 271
Disturbance Rejection, Inverse Problems of Linear Feedback Control Systems: Stabilization, Tracking and——Jer-Guang Hsieh and Kuo-Hsien Hsiah 10, 273
Doppler Effect and Its Influence on Low-Altitude CW Altimeters——Yo-Yu Sun 7, 221
Double Legendre Polynomial Transformation, Solution of Population Balance Equation by——Maw-Ling Wang and Song-Chiang Chen 6, 227
Doubly Pipelined CORDIC Array for Digital Signal Processing Algorithms——Tze-Yun Sung, Tai-Ming Parng and Yu-Hen Hu....10, 375
Dynamic Data Compression Algorithms in Speech Coding——Jeng-Neng Hwang and Lin-Shan Lee... 8, 261
Dynamic Instability of Plate Structures, Study on the——Huei-Jeng Lin and Ya-Jung Lee.... 9, 59
Dynamic Systems, Application of Shifted Legendre Polynomials in Analysis of——Ron-Yen Chang and Maw-Ling Wang 6, 235
Dynamics and Control of Robotic Manipulators, The ——Chang-Huan Liu.... 8, 201
Economic Evaluation of an ORC System for Energy Recovery, A Strategy for the Optimization and——Yen-Shiang Shih, Shu-Fun Kuo and Krystal M. Lee.... 9, 485
Effect of Particle Agglomeration of the Results from Two Different Size Measuring Instruments——Kan-Sen Chou and Feng-Renn Jean 8, 305
Effect of Pore Diffusion on the Rate of Methanation Reaction in a Hetergeneous Catalyst——Yu-Wen Chen.... 8, 299
Effect of Power System Stabilizers and Load Frequency Controllers on Power System Dynamic Stability——Chung-Yu Hsu, Li-Ming Chen, Kan-Lee Liou and Yuan-Yih Hsu.... 8, 135
Effects of Size Distribution on the Combustion Efficiency of a Liquid Propellant Rocket Motor——Kwan-Kit Chan and Long Chyn 8, 411
Effects of Substrate Protection and Intrarticle Diffusion on the Stability of Immobilized Glucose Isomerase——Kuo-Cheng Chen, Chan-Shing Lin and Juan-Yih Wu 8, 365
Efficiency of a Liquid Propellant Rocket Motor, Effects of Size Distribution on the Combustion——Kwan-Kit Chan and Long Chyn 8, 411
Efficient Speech Coding Techniques by Simplified Orthogonal Transformation——Jing-Chung Juan and Lin-Shan Lee 8, 317
Eigenstructures and Trajectory Sensitivity of Autonomous Linear Time-Invariant Systems, The Relationship Between the——I-Kong Fong, Chen-Fa Hsu, Min-Yen Wu and Te-Son Kuo 8, 373

Eigenvalue Problems, Application of Orthogonal Basis in Analysis of Sturm-Liouville——Ching-Tien Liou and Yi-Shyong Chou 9, 581
Elastic Moduli, A Differential Scheme for Multiphase Composites: I. Overall——Jiann-Quo Tarn and Yung-Ming Wang 6, 73
Elastic Stresses due to Homogeneous Inclusions with Long Elliptical Cylindrical Shape——Sanboh Lee 8, 25
Electrocarocardiograms by the Linear Predictive Method, Digital Signal Processing of——Kang-Ping Lin and Soo-Chang Pei 8, 181
Electrohydraulic Servo System, A Microprocessor-Based——Shih-Chang Lin and Ching-Hai Chen 7, 55
Electrolyte Electroreflectance of $Ga_{1-x}Al_xAs$, Microcomputer-Controlled Measurement of the——Ying-Sheng Huang, Sen-Bin Tseng, Chuang-Jan Chang, Hun-Mei Chen and Gwo-Jen Jan 9, 27
Energy-Recovery System, Techno-Economic Evaluation and Sensitivity Analysis of an——Krystal Mingjer Lee and Yen-Shiang Shih 8, 85
Entrance Region of Shrouded Arrays of Heated Rectangular Blocks, Geometrical Effect on Laminar Mixed Convection in the——Fu-Chu Chou and Jenn-Nan Lin 10, 709
Enzyme System, Estimation of the Intrinsic Constants in the Immobilized——Kuo-Cheng Chen, Yung-Chan Liou, Ching-Liang Lai, Chien-Yu Chang, Long-Huei Wang, Shyang-Ling Sang and Tann-Ching Chang 7, 181
Equality and Inequality Constraints, Generalized Geometric Programming with Both——Yun-Kung Chung 6, 269
Equatorial F2 Layer, Peak Height Estimation of the——Ruey-Beei Wu and Chun-Ming Huang 7, 119
Error Bias Analysis in PN Code Tracking Loops, The Channel Imbalance Phenomena and——Yung-Dar Huang 8, 67
Error Correction in Bit-Sliced Systems with Redundancy in Time——Da-Hong Chen and Chwan-Chia Wu 10, 597
Error Correction in Unidirectional Linear Arrays, Concurrent——Chwan-Chia Wu 10, 225
Excitations of Machine-Isolator-Floor Systems, Second Harmonic and 1/2 Subharmonic——Rong-Tyai Wang and Kuo-Shong Wang 8, 7
Expansion, The Flow in a Rectangular Channel with Sudden Contraction and——Tong-Miin Liou, Chii-Fang Kao and Sing-Maw Wu 10, 139
Experimental Design-An Improvement of a Golden Mill, An Application of——Chang-Chung Li 7, 207
Experimental Technique for the Measurement of Flame Propagation in Heterogeneous Fuel Sprays, An——Kwan-Kit Chan and Chorng Shyr Jou 8, 423
Explicit Criterion Minimization, Adaptive PID Control Based on——Fwu-Ren Liann and Shih-Chang Lin 9, 569
Externally Pressurized Journal Bearing, Dynamic Characteristics of a Double-Row Multirecess——Shui-Shong Lu, Pao-San Huang and Fu-Tsai Lee 9, 557
F2 Layer, Peak Height Estimation of the Equatorial——Ruey-Beei Wu and Chun-Ming Huang 7, 119
Fabrication of a Kilowatt Transverse Electrical Discharge CO_2 Laser, The——Kaung-Hsiung Wu 8, 57
Fabrication of Matched Cladding and Depressed Cladding Single Mode Optical Fibers——Yinn-Nien Huang and Spring-Zu Yang 9, 641
Fatigue Crack Propagation in 2024-T3 Aluminium, The Effects of Corresion on——Hon So, Jia-Yann Huang and George C. Tu 9, 465
Fault Diagnosis Systems, A Two-Phase Testing Technique for Analog——Chwan-Chia Wu 9, 213
Fault Diagnosis with Multiple Test Vectors, Diagnosibility of Nonlinear——Chwan-Chia Wu 9, 51
Feature Extraction Method for PVC Detection in Bedside Monitor, A Real-Time——Walter H. Chang, Tsann-Rou Lin and Kang-Ping Lin 10, 511
Field Oriented Control of Current Source Inverter-Fed Induction Motor Drives, Microprocessor-Based——Chang-Huan Liu, Ching-Chi Chen and Lian-Chen Chou 10, 53
Film Theory Model, The Effect of Interfacial Resistance on Gas Absorption with Chemical Reaction: The——Ching-Yuan Chang, Dong-Chir Hwang and Chu-Liang Deng 10, 191
Filter, A Bit-Sliced Design for a Programmable Digital——Yang-Chang Chen and Nan-Chang Lin 6, 153
Filter Using Generalized-Immittance Converter Biquads, Design of a Universal Active——Shao-Shiun Chung 6, 43
Fin, Heat Transfer Analysis for Conjugate Free Convection-Conduction in a Vertical Plate——Cha'o-Kuang Chen and Ming-Jer Huang 7, 151
Finite Element Analysis of Helical Springs and Experimental Verifications, On Static and Dynamic——Wen-Hwa Chen and Pwu Tsai 6, 9
Finite Element Solutions for Laminar Flow and Heat Transfer Around a Square Prism——King-Leung Wong and Dha'o-Kuang Chen 9, 605
Finite/Infinite Element Analysis of Wave Diffraction——Min-Chih Huang 8, 1
Finite Strip Analysis of Multilayer Laminated Plates, A Hybrid——Jiann-Quo Tarn and Dong-Lung Sa 10, 647

Finite Strip Method with Orthogonal Collocation, Solutions of Plate Problems by——Jiann-Quo Tarn and San-Ton Lin..... 9, 195
Fire Environment, Temperature Distribution in Steel Frames Exposed to a——Jiann-Quo Tarn, Jenn-Chuan Lay and Yi-Bin Wang.....10, 615
First-Order Partial Differential Equations via Shifted Chebyshev Polynomials, Analysis of——Jen-Yu Lin 9, 301
Five-Element-Kind Networks, Realization of a New Class of——Shao-Shiun Chung..... 6, 117
Flame Propagation in Heterogeneous Fuel Sprays, An Experimental Technique for the Measurement of——Kwan-Kit Chan and Chorng Shyr Jou 8, 423
Flexible Manufacturing Systems: Allocation of Functions and System Size, Human Supervisory Control in——Sheue-Ling Hwang.....10, 251
Flexible Robot Arm, Output Feedback Control with Optimal Gains for a One-Link——Wen-Jieh Wang, Chen-Fa Hsu and Shui-Shong Lu 10, 409
Floating-Point Code for Voice Coding and Its Applications, A Modified——Chang-Fuu Chen 10, 421
Flow Field Measurements and Pyhsical Processes in Confined Air-Water Jet——Shou-Shing Hsieh, Nihal E. Wijeysundera and C, William Savery..... 9, 513
Fly Ash and Their Effect on Properties of Cement Mortar, Strategies of Using——Chao-Lung Hwang, Chao-Yin Lin and Shen-Sein Hong..... 9, 289
Fly Ash by Two-Stage Preferential Chlorination, Recovery of Metals from Power Plant——Ching-Yuan Chang, George Burnet and Mike J. Murtha.....10, 295
Fonts Generation, A System Model for Chinese Character——Kuo-Young Cheng and Keh-Jiann Chen 6, 175
Forced Convection Heat Transfer from Concentrated and Distributed Thermal Sources——Hsiao-Tsung Lin and June-Jye Chen 10, 681
Free Convection Over a Horizontal Cylinder with Blowing and Suction, Laminar——Ming-Jer Huang and Cha'o-Kuang Chen..... 6, 209
Freezing, Linear Stability of a Binary Fluid Layer with——Jong-Jhy Jou 9, 141
Functional Analytic Methods, Solution of Low Péclet Number Heat Transfer with Viscous Dissipation in the Semi-Infinite Axial Region of a Tube via——Ching-Tien Liou and Feng-Sheng Wang..... 9, 497
Functional Approximation for Inversion of Laplace Transforms, On a——Wen-Teng Wu and How-Rang Ong 6, 265
Functional Programming in Graphs——Wei-Teh Huang.....10, 87
Fundamental Solutions for Torsional Problems of Nonhomogeneous Transversely Isotropic Media——Jiann-Quo Tarn and Yung-Ming Wang..... 9, 187
Furnace I: Longitudinal Distributions of the Process Variables, A Mathmatical Modeling the Iron Blast——Cháo-Wen Chen and Chun-I Lin 8, 115
Furance II: The Effects of Operating Conditions, A Mathmatical Modeling of the Iron Blast——Cháo-Wen Chen and Chun-I Lin..... 8, 129
GaAs Oxide-Stripe Double-Heterostructure Laser, An AlGaAs/——Ming-Huei Shieh, Hao-Hsiung Lin, Si-Chen Lee and Yuin-Lei Chiou 8, 191
GaAs V-Groove Channeled Substrate Buried Heterostructure Laser Diodes, AlGaAs/——Jiahn-Ann Chen, Si-Chen Lee and Hao-Hsiung Lin 8, 311
Generalized Block Pulse Functions, Parameter Estimation with Variable Sampling Time via——Rong-Liang Chen and Wen-Teng Wu 10, 567
Generalized Chinese Remainder Theorem, A Key-Lock-Pair Mechanism Based on——Chin-Chen Chang and Chaug-Pu Chen 9, 383
Generalized Couette Flow in Channels of Irregular Cross-Section——Ta-Jo Liu and Kuan-Chih Chen 10, 345
Geometric Programming with Both Equality and Inequality Constraints, Generalized——Yun-Kung Chung..... 6, 269
Glucose Isomerase, Effects of Substrate Protection and Intraparticle Diffusion on the Stability of Immobilized——Kuo-Cheng Chen, Chan-Shing Lin and Juan-Yih Wu 8, 365
Golden Mill, An Application of Experimental Design-An Jmprovement of a——Chang-Chung Li..... 7, 207
Graetz Problem of Power Law Fluids with Second Kind Boundary Condition, Effects of Slip on——Yi-Hsu Ju and Wen-Chien Lee 7, 141
Growth Kinetics and Cultivation of Spirulina Platensis——Shih-Yow Huang and Chao-Peng Chen ... 9, 355
Haphazard Files, Performance Analyses of Multi-Attributed Files Based Upon Multiple Key Hashing Functions and——Chih-Chen Chang and Don-Hsin Su 10, 99
Harmonic and 1/2 Subharmonic Excitations of Machine-Isolator-Floor Systems, Second——Rong-Tyai Wang and Kuo-Shong Wang 8, 7
Heat Exchanger, An Experimental Study of On Line Computer Techniques Applied to a Double Pipe——Hun-I Chang and Jia-Huey Tsao..... 9, 149

Heat Transfer Along a Moving Plate with Suction or Blowing, Laminar Boundary Layer——Sun-Yuan Tsay and Chih-Kuang Ko 7, 265
Heat Transfer Analysis for Conjugate Free Convection-Conduction in a Vertical Plate Fin——Cha'o-Kuang Chen and Ming-Jer Huang 7, 151
Heat Transfer in the Thermal Entrance Region of Horizontal Isothermal Tubes, Natural Convection Effects on Laminar——Guang-Jyh Hwang and Min-June Lin 8, 343
Heat Transfer, Solutions of Solid-Fluid Conjugated Problems with Applications in the Capillary Die——Yi Hsu Ju and Wen-Chien Lee 8, 239
Helical Gears with Pinion Circular Arc Teeth and Gear Involute Teeth, Equations for——Chung-Biau Tsay 10, 45
Hermite Polynomials and Their Applications to Functional Differential Equations, The Properties of Modified——Rong-Yeu Chang and Maw-Ling Wang 9, 75
Heterogeneous Fuel Sprays, An Experimental Technique for the Measurement of Flame Propagation in——Kwan-Kit Chan and Chorng Shyr Jou 8, 423
Heterogenizing Homogeneous Co^{3+} Catalyst in the Synthesis of Organic Peroxides, Comparison of the Homogeneous and the——Test-Chuan Chou, Bing-Joe Hwang and Cheng-Chieh Lee 10, 441
Heterostructure Laser, An AlGaAs/GaAs Oxide-Stripe Double——Ming-Huei Shieh, Hao-Hsiung Lin, Si-Chen Lee and Yuin-Lei Liou 8, 191
Hot-Film/CTA Velocity Measurements in Stirred Tanks and a Simplified Measuring Method, Effect of Probe Orientation on——Wei-Ming Lu and Hsuan Chen 9, 399
Hybrid Finite Strip Analysis of Multilayer Laminated Plates, A——Jiann-Quo Tarn and Dong-Lung Sa 10, 647
Hydrostatic Bulging of a Circular Sheet, An Elasto-Plastic Analysis of——You-Min Huang 10, 549
Identification of Bilinear Systems by Block Functions, Parameter——Fan Ren, Yen-Ping Shih, Soo-Chang Pei and Ruey Guo 6, 39
Identification of Discrete Systems via Discrete Chebyshev Transformation Parameter——Ruey-Yinn Hwang and Yen-Ping Shih 8, 153
Identification of Linear Systems, Application of Chebyshev Polynomials in Analysis and——Yen-Min Shih 6, 135
Identification of Linear Time-Invariant System with Deterministic Disturbances——Jing-Chung Shen and Fan-Chu Kung 10, 209
Identification with Deterministic Aperiodical Input, A Method of System——Fwu-Ren Liann and Shih-Chang Lin 8, 143
Image Processing, Reduced Processing Element Architecture for Parallel Local——Po-Ning Chen, Yung-Sheng Chen and Wen-Hsing Hsu 10, 701
Immobilized Enzyme System, Estimation of the Intrinstic Kinetic Constants in the——Kuo-Cheng Chen, Yung-Chan Liou, Ching-Liang Lai, Chien-Yu Chang, Long-Huei Wang, Shyang-Ling Sang and Tann-Ching Chang 7, 181
Immobilized Lactase Reactor, Analysis of an——Kuo-Cheng Chen, Chi-Ming Chang, Chi-Chiu Ling and Fu-Shiow Yin 7, 187
Impact Loading, The Multiaxial Constitutive Law for Concrete Structures Subjected to——Jenn-Chuan Chern and Ching-Huei Chen 10, 625
Impact Model for Motions of a High-Speed Planing Boat in Regular Waves, An——Chun-Tsung Wang 7, 197
Inclusions with Long Elliptical Cylindrical Shape, Elastic Stresses due to Homogeneous——Sanboh Lee 8, 25
Induction Motor Drives, Microprocessor-Based Field Oriented Control of Current Source Inverter-Fed——Chang-Huan Liu, Ching and Lian-Chen Chou 10, 53
Induction Motors, Computer-Aided Design and Analysis of Three-Phase——Chang-Huan Liu and Hsien-Chung Chang 8, 31
Inelastic Post Buckling Behavior of Very Short Column——Ching-Lung Liao and Sheng-Taur Mau ... 8, 333
Infinite Element Analysis of Wave Diffraction, Finite/——Min-Chih Huang 8, 1
In-Situ Leaching, Generation of Feric Lixiviant by Bio-Oxidation of Pyrite for——Tsuen-Ni Lung ... 7, 19
Integration Method for Linear Structural Dynamics, An Unconditionally Stable Implicit Direct——Ching-Lung Liao 9, 333
Interface Trap States in an MOS Capacitor from the Peaks of Optical Illumination-Induced Capacitances, Direct Indication of——Jenn-Gwo Hwu and Way-Seen Wang 10, 429
Interface Trap States in Silicon MOS Capacitors, Relationship Between Mobile Charges and——Jenn-Gwo-Hwu, Way-Seen Wang and Yung-Leei Chiou 9, 171
Interfacial Resistance on Gas Absorption with Chemical Reaction: The Film Theory Model, The Effect of——Ching-Yuan Chang, Dong-Chir Hwang and Chu-Liang Deng 10, 191
Internal Waves in an Elliptical Channel——Chin-Hwa Kong 9, 547
Interpolations for a Computer Numerical Control System, New Algorithms of——Yung-Chang Chen ... 8, 437

Inverse Problems of Linear Feedback Control Systems: Stabilization, Tracking and Disturbance Rejection——Jer-Guang Hsieh and Kuo-Hsien Hsieh 10, 273
Inversion of Laplace Transformations, On a Functional Approximation for——Wen-Teng Wu and How-Rang Ong 6, 265
Inverter, Analysis and Design of a High Efficiency Sinusoidal——Kuen-Huei Cheng and Chang-Huan Liu 7, 245
Iron Carbide, C-H-O Systems in the Presence of Iron Oxide and——Yu-Wen Chen 10, 107
Iron Oxide and Iron Carbide, C-H-O Systems in the Presence of——Yu-Wen Chen 10, 107
Isomerase, Effects of Substrate Protection and Intraparticle Diffusion on the Stability of Immobilized Glucose——Kuo-Cheng Chen, Chan-Shing Lin and Juan-Yin Wu 8, 365
Jordan Continued Fraction Expansion Canonical Form, A Transformation of State-Space Model to——Chyi Hwang and Yen-Ping Shih 7, 291
Key-Lock-Pair Machanism Based on Generalized Chinese Remainder Theorem, A——Chin-Chen Chang and Chang-Pu Chen 9, 383
Kilowatt Transverse Electrical Discharge CO_2 Laser, The Fabrication of a——Kaung-Hsiung Wu 8, 57
Lactase Reactor, Analysis of an Immobilized——Kuo-Cheng Chen, Chi-Ming Chang, Chi-Chiu Ling and Fu-Shiow Yin 7, 187
Laminar Flow and Heat Transfer Around a Square Prism, Finite Element Solutions for——King-Leung Wong and Cha'o-Kuang Chen 9, 605
Laminar Mixed Convection in the Entrance Region of Shrouded Arrays of Heated Rectangular Blocks, Geometrical Effect on——Fu-Chu and Jenn-Nan Lin 10, 709
Landslope by Variational Calculus and Finite Difference Method, Stability Analysis of Arbitrary Shape——Lai-Yun Wu 10, 473
Large Displacement Analysis of Cable Systems, Elasto-Plastic——Pao-Hsii Wang and Min-Jong Wang 9, 451
Laser, An AlGaAs/GaAs Oxide-Stripe Double Heterostructure——Ming-Huei Shieh, Hao-Hsiung Lin, Si-Chen Lee and Yuin-Lei Chiou 8, 191
Laser Diodes, AlGaAs/GaAs V-Groove Channeled Substrate Buried Heterostructure——Jiahn-Ann Chen, Si-Chen Lee and Hao-Hsiung Lin 8, 311
Lasers, The Fabrication of a Kilowatt Transverse Electrical Discharge CO_2——Kaung-Hsiung Wu ... 9, 57
Lateritic Gravels, A Study on Engineering Properties of Compacted——Ping Sien Lin 9, 533
Legendre Polynomials, Optimization of Batch Crystallization Processes via——Maw-Ling Wang and Chon-Fon Chen 7, 27
Limit Cycle Analysis of Power Systems——Chang-Ming Liaw, Ching-Tsai Pan and Kuang-Wei Han ... 10, 263
Limit Equilibrium Method for Analyzing Progressive Failure in Slopes, A——Rong-Her Chen and Biing-Lurng Jiang 9, 345
Limiting Gravity Waves, Numerical Verification on a 90° Interior Crest Angle in——Shi-Chuan Lin, Yang-Yih Chen and Shian-Gwo Chang 10, 539
Linear Predictive Method, Digital Signal Processing of Electrocardiograms by the——Kang-Ping Lin and Soo-Chang Pei 8, 181
Linear Systems, Application of Chebyshev Polynomials in Analysis and Identification of——Yen-Min Shih 6, 135
Linear Time-Invariant Systems, The Relationship Between the Eigenstructures and Trajectory Sensitivity of Autonomous——I-Kong Fong, Chen-Fa Hsu, Min-Yen Wu and Te-Son Kuo 8, 373
Liquefaction Potential of Sands, Dilatancy Rate for Evaluating——Tzou-Shin Ueng 9, 241
Liquid Mixtures, Assessment and Improvement of Voscosity Models for Miscible Binary and Ternary——Rex Mao-Hsin Chiu, Wen-Nan Chien and Chen-Chi Wei 9, 307
Liquid Phase Epitaxy, Fabrication of $Pb_{1-x}Sn_xTe$/PbTe Heterojunctions by——Yeh-Ren Kao, Mei-Wen Wang, Huey-Liang Hwang and Cherng-Yuan Sun 7, 233
Lithium Bromide on the Solution Polymerization of Acrylonitrile, Salt Effect of——Chuh-Yung Chen, Jen-Feng Kuo, Schon-Youh Shieh and Jih-Gang Tornt 9, 259
Load Frequency Controllers on Power System Dynamic Stability, Effect of Power System Stabilizers and——Chung-Yu Hsu, Li-Ming Chen, Kan-Lee Liou and Yuan-Yih Hsu 8, 135
Load-Slip Relationships for Reinforcing Bars Subjected to a Monotonic Pull Loading——Ing-Jaung Lin and Hou-Ming Sung 7, 101
Longest Common Subsequence Problem, Systolic Algorithms for the——Chang-Biau Yang and R. C. T. Lee 10, 691
Low Sensitivity Controllers: Frequency Domain Technique, Design of——Ching-Tien Liou, Tsing-Yee Tu and Yung-Chun Wu 8, 41
Low Sensitivity Controllers: Preregulator Approach, Design of——Ching-Tien Liou, Tsing-Yee Tu and Yung-Chun Wu 8, 49
Low Sensitivity Controllers for Discrete-Time Systems——Ching-Tien Liou and Tsing-Yee Tu 8, 381
LPC and Tone Structure of Mandarin Speech, Test-Independent Speaker Identification via——Sin-Horng Chen and Min-Tau Lin 10, 555

LPCVD Silicon Nitride Films by RBS-Profile, Characterization of Surface Profiles of——Yuh-Chyoung Chen, Huey-Liang Hwang, Cheng-Ming Fou and Jung-Chen Liue 10, 195
LQG Optimal Controller Synthesis with Robust Optimization in Multivariable Systems——Feng-Hsiag Hsiao and Bor-Sen Chen 10, 517
Machine-Isolator-Floor Systems, Second Harmonic and 1/2 Subharmonic Excitations of——Rong-Tyai Wang and Kuo-Shong Wang 8, 7
Machined Workpiece, The Effect of Tool Flank Wear on the Temperature Distribution of a——Zone-Ching Lin, Fu-Siang Chang and Yang-Tai Lin 10, 353
Magnetic Field Distribution in an Air Gap with the Effect of Armature Reaction, Numerical Analysis of——Chain-Gee Hong and Guang-Jyh Hwang 10, 129
Magnetic Field Distribution in an Air Gap with the Effects of Slot Depth and Width, Numerical Analysis of——Chain-Gee Hong and Guang-Jyh Hwang 9, 203
Magnetohydrodynamic Poiseulle Flow Through a Porous Medium——Ampere A. Tseng 6, 251
Mandarin Speech Using Its Special Characteristics, Digital Synthesis of——Shaw-Min Lei and Lin-Shan Lee 6, 107
Mass Transfer and Thermal Diffusion on the Growth Rate of CdTe by MOCVD, Analysis of the Effect of——Yu-Hua Lee, Ing-Ruey Liao, Kan-Sen Chou and Min-Shyong Lin 10, 391
Methanation Reaction in a Heterogeneous Catalyst, Effect of Pore Diffusion on the Rate of——Yu-Wen Ceen 8, 299
Method of Combining Rigid Body Displacements for the Determination of Rigid Body Rotations of Structural Members in the Slope-Deflection Method, A——Chang-Ping Chiou 9, 505
Methyl Pyridinium Chloride in Acetonitrile, The Electrochemical Reaction of——Cheng-Sheng Lin, Yung-Yun Wang and Chi-Chao Wan 10, 385
Microcomputer Loop Communication Network Design——Yau-Po Yang and Chang-Huan Liu 8, 429
Microstrip Antenna Array Controlled with Active Phase Shifter——Hsueh-Jyh Li and Ming-Tzong Shieh 9, 633
Minimal Perfect Hashing Functions, On the Design of Letter Oriented——Chin-Chen Chang and Jiann-Cherng Shieh 8, 285
Mixed Traffic Flow, A Preliminary on the Simulation of——Yi-Hwa Chou and Tien-Tsyh Chen 6, 65
Mobile Charges and Interface Trap States in Silicon MOS Capacitors, Relationship Between——Jenn-Gwo Hwu, Way-Seen Wang and Yun-Leei Chiou 9, 171
MOCVD, Analysis of the Effect of Mass Transfer and Thermal Diffusion on the Growth Rate of CdTe by——Yu-Hua Lee, Ing-Ruey Liao, Kan-Sen Chou and Min-Shyong Lin 10, 391
Model Reduction of Discrete Systems, An Optimal Impulse Response Matching via the Residue Method for——Ruey-Yinn Hwang, Chyi Hwang and Yen-Ping Shih 6, 169
Model Simplification of Stable Discrete-Time Systems by the Squared Magnitude Padé Approximation——Chyi Hwang and Hang-Chun Chow 9, 267
Modeling of the Iron Blast Furnace I: Longitudinal Distributions of the Process Variables, A Mathematical——Cháo-Wen Chen and Chun-I Lin 8, 115
Modeling of the Iron Blast Furnace II: The Effects of Changes of Operating Conditions, A Mathematical——Cháo-Wen Chen and Chun-I Lin 8, 129
MODEM, The Design of a Multi-Speed PSK——Jeffrey Lin, Hen-Wai Tsao and Jin-Fu Chang 8, 171
Modified Laguerre Polynomials in Analysis of Stiff Equations, Application of——Maw-Ling Wang and Chih-Kao Chou 7, 133
Moisture Migration and Condensation within Porous Material——Kang-Shin Chen, Kuan-Hsiung Yang and Wang-Cheng Hwang 10, 485
Moment Redistribution in Continuous Prestressed Concrete Beams, Prediction of——Yi-Lung Mo 9, 281
Moment Redistribution in Reinforced Concrete Frames——Yi-Lung Mo 9, 105
Morphology of Al_3Ni on the Strength of an Al-7 w/o Ni Alloy, The Effects of the——Ming-Pan Hung 7, 37
Motor, Effects of Size Distribution on the Combustion Efficiency of a Liquid Propellant Rocket Kwan-Kit Chan and Long Chyn 8, 411
Motors, Computer-Aided Design and Analysis of Three-Phase Induction——Chang-Huan Liu and Hsien-Chung Chang 8, 31
MRP System, The Techniques of Progress Monitoring and Priority Control is an——Tsung-Shin Hsu 8, 75
Multiaccess Technique for Data Transmissions, Performance Study of a Differential Adaptive Reservation——Duei Tsai and and Jin-Fu Chang 9, 595
Multi-Atrtibute Files Based Upon Multiple Key Hashing Functions and Haphazard Files, Performance Analyses of——Chin-Chen Chang and Don-Hsin Su 10, 99
Multiaxial Constitutive Law for Concrete Structures Subjected to Impact Loading, The——Jenn-Chuan Chern and Ching-Huei Chen 10, 625
Multifilter Technique, Identification of SMART-1 Array Data by——Chin-Hsiung Loh and Kuo-Lung Peng 8, 97

Multilayer Laminated Plates, A Hybrid Finite Strip Analysis of——Jiann-Quo Tarn and Dong-Lung Sa 10, 647
Multiphase Composites: I. Overall Elastic Moduli, A Differential Scheme for——Jiann-Quo Tarn and Yung-Ming Wang 6, 73
Multiphase Composites: II. Thermal Expansion Coefficients and Conductivities, A Differential Scheme for——Jiann-Quo Tarn and Yung-Ming Wang 6, 83
Multiple Disk Systems, Performance Analysis of the Disk Modulo Allocation Method for Concurrent Accessing on——Chin-Chen Chaug and Jaw-Ji Shen 8, 271
Multiple Key Hashing Functions and Hapahazard Files, Performance Analyses of Multi-Attribute Files Based upon——Chin-Chen Chang and Don-Hsin Su 10, 99
Multipoint Tangent Phase Continued-Fraction Expansion, Stable Linear System Reduction via a——Chyi Hwang and Muh-Yang Chen 10, 417
Multiprocessor Systems, Task Assignment in Loosely-Coupled——Wen-Tsuen Chen and Jang-Ping Sheu 10, 721
Multiqueue-Multiserver System with Time-Division Multiplexed Services and Non-Zero Walktime, A Discrete-Time——Jin-Fu Chang 10, 561
Multi-Speed PSK MODEM, The Design of a——Jeffrey Lin, Hen-Wai Tsao and Jin-Fu Chang 8, 171
Natural Convection Effects on Laminar Heat Transfer in the Thermal Entrance Region of Horizontal Isothermal Tubes——Guang-Jyh Hwang and Min-June Lin 8, 343
Nearest Neighbor Searching Technique, Performance Analysis of a *k*——Chin-Chen Chang and Jenn Liang 8, 157
Nearshore Currents, Analytical Study of Wave-Induced——Ming-Chung Lin and Jiing-Yih Liou 9, 437
Network Design, Microcomputer Loop Communication——Yau-Po Yang and Chang-Huan Liu 8, 429
Networks, Realization of a New Class of Five-Element-Kind——Shao-Shiun Chung 6, 117
Newtonian Fluid Flowing Around Two Spheres in a Tandem Arrangement, Analysis of Laminar——Maw-Ling Wamg, Rong-Yeu Chang and I-Yao Chung 10, 573
Nonhomogeneous Transversely Isotropic Media, Fudamental Solutions for Torsional Problems of——Jiann-Quo Tarn and Yung-Mong Wang 9, 187
Non-Ideal Mixing, Analysis of Chemical Reaction System with——Ching-Tien Liou, Yi-Sui Chien and Wei-Shin Chen 6, 127
Nonlinear Circuit and Chaotic Behaviour, on a Driven——W. H. Steeb 10, 717
Nonlinear Standing Waves, A New Approach to Analyze——Ching-Piao Tsai, Yang-Yih Chen, Frederick L. W. Tang and H. H. Hwang 10, 233
Numerically Controlled Machining, A Study on the Application of Circular Biarcs Fitting to——Rong-Shean Lee and Nan-Jiune Liang 7, 225
On the Design of Letter Oriented Minimal Perfect Hashing Functions——Chin-Chen Chang and Jiann-Cherng Shieh 8, 285
Operation Problems, Design of Wastewater Treatment Pilot Olant and——Chi-Yuan Lee 6, 189
Optical Fibers, Fabrication of Matched Cladding and Depressed Cladding Single Mode——Yinn-Nien Huang and Spring-Zu Yang 9, 641
Optical Illumination-Induced Capacitances, Direct Indication of Interface Tape States in an MOS Capacitor from the Peaks of——Jenn-Gwo Hwu and Way-Seen Wang 10, 429
Optimal Design of Solar Water Heating Systems, An——Cheng-Wen Pwu and Kuo-Shong Wang 7, 11
Optimization and Economic Evaluation of an ORC System for Energy Recovery, A Strategy for the——Yen-Shiang Shih, Shu-Fun Kuo and Krystal M. Lee 9, 485
Optimization of Batch Crystallization Processes via Legendre Polynomials——Maw-Ling Wang and Chon-Fon Chen 7, 27
Optimization Technique for the Design of 2D Half-Plane Recursive Digital Filters, Recursive——Soo-Chang Pei and Chan-Lin Chen 7, 239
Optimum Design of a Cogeneration System in Processes——Chih-Chuag Chou and Yen-Shiang Shih 9, 375
Optimum Face Milling Cutter, The Design and Manufacture of an——Tien-I Liu 6, 189
ORC System for Energy Recovery, A Strategy for the Optimization and Economic Evaluation of an——Yen-Shiang Shih, Shu-Fun Kuo and Krystal M. Lee 9, 485
Organic Peroxides, Comparison of the Homogeneous and the Heterogenizing Homogeneous Co^{3+} Catalyst in the Synthesis of——Tse-Chuan Chou, Bing-Joe Hwang and Cheng-Chieh Lee 10, 441
Organics Coagulation Removal from Water, Effect of Preozonation on——Hsuan-Hsien Yeh and Jyh-Ming Chen 10, 335
Orthogonal Collocation, Solutions of Plate Problems by Finite Strip Method with——Jiann-Quo Tarn and San-Ton Lin 9, 195
Orthogonal Functions in Analysis of Sturm-Viouville Eigenvalue Problems——Ching-Tien Liou and Yi-Shyong-Chou 9, 581
Orthogonal Range Queries, Optimal Cartesian Product Files for——Chin-Chen Chang and Syh-Shyan Chang 10, 727

Orthogonal Transformation, Efficient Speech Coding Techniques by Simplified——Jing-Chung Juan and Lin-Shan Lee 8, 317
Output Feedback Control with Optimal Gains for a One-Link Flexible Robot Arm——Wen-Jieh Wang, Chen-Fa Hsu and Shui-Shong Lu 10, 409
Oxidation of Sulphite at Higher Concentration of Cobaltous Ion Catalyst——Bing-Joe Hwang, Tse-Chuan Chou and Kung-Ming Hong 10, 531
Oxygenation Efficiency, The Effect of Blood Flow Phenomena on——Tze-Wen Chung and Chau-Jen Lee 6, 51
Packet Switching System, The Design and Implication of——Shiow-Yuan Huang 7, 61
Parameter Identification of Discrete Systems via Discrete Chebyshev Transformation——Ruey-Yinn Hwang and Yen-Ping Shih 8, 153
Parameter Identification of Systems with Unmeasured Disturbances——Wen-Teng Wu and Jenn-Chien Chou 7, 127
Parameter Estimation with Variable Sampling Time via Generalized Block Pulse Functions——Rong-Liang Chen and Wen-Teng Wu 10, 567
Partial Differential Equation of Population Balance by Shifted Legendre Polynomials, Solution of——Maw-Ling Wang and Rong-Yeu Chang 6, 31
Partial Response Systems, Using Adaptive Equalizer to Improve the Performance of——Ching Hsing Lou, Kuang-Tsan Wu and Jin-Fu Chang 6, 161
Particle Agglomeration on the Results from Two Different Size Measuring Instruments, Effect of——Kan-Sen Chou and Feng-Renn Jean 8, 305
Particulate Air Pollution in Taipei, A Study on——Fu-Tien Jenq and Jun-Chang Lee 7, 81
Pattern Recognition, Defective Ball Bearing Detection Using Vibration Spectrum——Ching-Huan Tseng and Shih-Fu Ling 6, 201
$Pb_{1-x}Sn_xTe$/PbTe Heterojunctions by Liquid Phase Epitaxy, Fabrication of——Yeh-Ren Kao, Mei-Wen Wang, Huey-Liang Hwang and Cherng-Yuan Sun 7, 233
PbTe Crystals, Growth and Characterization of Vacuum Sublimed——Mei-Wen Wang, Yeh-Ren Kao, Huey-Liang Hwang and Cherng-Yuan Sun 7, 287
Percolation Process in High Conductivity Phosphorus Doped Amorphous Si:H:F Alloys——Si-Chen Lee and Shyh-Shi Chao 6, 245
Performance Analysis of a k-Nearest Neighbor Searching Technique——Chin-Chen Chang and Jenn Liang 8, 157
Performance Analysis of the Disk Modulo Allocation Method for Concurrent Accessing on Multiple on Multiple Disk Systems——Chin-Chen Chang and Jaw-Ji Shen 8, 271
Phase Shifter, Microstrip Antenna Array Controlled with Active——Hsueh-Jyh Li and Ming-Tzong Shieh 9, 633
PID Control Based on Explicit Criterion Minimization, Adaptive——Fwu-Ren Liann and Shih-Chang Lin 9, 569
Pilot Plant and Operation Problems, Design of Wastewater Treatment——Chi-Yuan Lee 6, 183
Pitch Extraction and Four-Tone Recognition System for Mandarin Speech, A Real-Time——Kai-Cheng Chang and Chien-Chiao Yang 9, 37
Planing Boat in Regular Waves, An Impact Model for Motions of a High-Speed——Chun-Tsung Wang 7, 197
Plastic Frameworks, Automated Reliability Analysis of——Hak-Fong Ma 8, 109
PN Code Tracking Loops, The Channel Imbalance Phenomena and Error Bias Analysis in——Yung-Dar Huang 8, 67
PN Signal Correlator with Improved Performance, A Digital——Jung-Hui Chiu and Lin-Shan Lee ... 9, 527
Poiseuille Flow Through a Porous Medium, Magnetohydrodynamic——Ampere A. Tseng 6, 251
Polar Pure Liquids, Prediction of the Thermal Conductivity of——Rex Mao-Hsin Chiu, Bao-Dong Chen and Wen-Nan Chien 10, 329
Polling of Two Correlated Queues Under Three Service Disciplines in Discrete-Time Environment——Chie Dou and Jin-Fu Chang 9, 405
Pollution in Taipei, A Study on Particulate Air——Fu-Tien Jeng and Jun-Chang Lee 7, 81
Polymerization of Acrylonitrile, A Simulation for the Bulk——Chuh-Yung Chen, Shiou-Wen Chen, Jium-Yueh Mao and Jen-Feng Kuo 7, 171
Polynomials in Analysis of Stiff Equations, Application of Modified Laguerre——Maw-Ling Wang and Chih-Kao Chou 7, 133
Polynomials, Optimization of Batch Crystallization Processes via Legendre——Maw-Ling Wang and Chon-Fon Chen 7, 27
Population Balance by Shifted Legendre Polynomials, Solution of Partial Differential Equation of——Maw-Ling Wang and Rong-Yeu Chang 6, 31
Population Balance Equation by Double Legendre Polynomial Transformation, Solution of——Maw-Ling Wang and Song-Chiang Chen 6, 227

Pore Diffusion on the Rate of Methanation Reaction in a Heterogeneous Catalyst, Effect of——Yu-Wen Chen 8, 229
Porous Material, Moisture Migration and Condensation within——Kang-Shin Chen, Kuan-Hsiung Yang and Wang-Cheng Hwang 10, 485
Porous Medium, Magnetohydrodynamic Poiseuille Flow Through a——Ampere A. Tseng 6, 251
Porous Plate Between Two Compartments, Transient Diffusion Through a——Hung-Shan Weng and Yuh-Fong Tszeng 10, 435
Power Law Fluids with Second King Boundary Condition, Effects of Slip on Graetz Problem of——Yi-Hsu Ju and Wen-Chien Lee 7, 141
Power System Stabilizer, Application of the Parameter Plane Method to the Design of a Digital——Yuan-Yih Hsu and Chi-Jui Wu 10, 167
Power System Stabilizers and Load Frequency Controllers on Power System Dynamic Stability, Effect of——Chung-Yu Hsu, Li-Ming Chen, Kan-Lee Liou and Yuan-Yih Hsu 8, 135
Power Systems, Cycle Analysis of——Chang-Ming Liaw, Ching-Tsai Pan and Kuang-Wei Han 10, 263
Prediction of the Thermal Conductivity of Polar Pure Liquids——Rex Mao-Hsin Chiu, Bao-Dong Chen and Wen-Nan Chien 10, 329
Preferential Chlorination, Recovery of Metals from Power Plant Fly Ash by Two-Stage——Ching-Yuan Chang, George Burnet and Mike J. Murtha 10, 295
Pregress Monitoring and Prierity Control in an MRP System, The Techniques of——Tsung-Shin Hsu ... 8, 75
Prezonation on Organics Coagulation Removal from Water, Effect of——Hsuan-Hsien Yeh and Jyh-Ming Chen 10, 335
Pressure Characteristics of Random Water Waves, The——Yi-Yu Kuo and Her-Yuan Chen 6, 1
Prestressed Concrete Beams, Prediction of Moment Redistribution in Continuous——Yi-Lung Mo 9, 281
Productive Efficiency, A Model for Measuring——Chiang Kao 9, 251
Programmable Digital Filter, A Bit-Sliced Design for a——Yung-Chang Chen and Nan-Chang Lin ... 6, 153
Progressive Failure in Slopes, A Limit Equilibrium Method for Analyzing——Rong-Her Chen and Biing-Lurng Jiang 9, 345
PVC Detection in Bedside Monitor, A Real-Time Feature Extraction Method for——Walter H. Chang, Tsann-Rou Lin and Kang-Ping Lin 10, 311
Quadratic Pole and Zero Assignment, An Adaptive Controller with Optimal——Kwok-Wai Cheung and Mi-Ching Tsai 10, 75
Radiation of a Line Source in a Leaky Wedge Structure——Kuan-Kin Chan 7, 147
Random Routing, Performance Evaluation of a Finite Queue with——Chung-Ju Chang and Jin-Fu Chang 10, 671
Random Water Waves, The Pressure Characteristics of——Yi-Yu Kuo and Her-Yuan Chen 6, 1
RBS Profile, Characterization of Surface Profiles of LPCVD Silicion Nitride Films by——Yuh-Chyoung Chen, Huey-Liang Hwang, Cheng-Ming Fou and Jung-Chen Liue 10, 195
Reaction System with Non-Ideal Mixing, Analysis of Chemical——Ching-Tien Liou, Yi-Sui Chien and Wei-Shin Chen 6, 127
Reactor, Modeling and Simulation of Non-Adiabatic Catalytic Fixed Bed——Ching-Tien Liou and Yi-Shyong Chou 6, 99
Pealization of a New Class of Five-Element-Kind Networks——Shao-Shiun Chung 6, 107
Recovery of Metals from Power Plant Fly Ash by Two-Stage Preferential Clorination——Ching-Yuan Chang, George Burnet and Mike J. Murtha 10, 295
Reduced-Order Modeling of Linear Discrete-Time Systems Using Cauer Third Continued-Fraction Method——Chyi Hwang and Chee-Fai Yung 10, 283
Redundancy in Time, Error Correction in Bit-Sliced Systems with——Da-Hong Chen and Chwan-Chia Wu 10, 597
Regular Waves, An Impact Model for Motions of a High-Speed Planing Boat in——Chun-Tsung Wang 7, 197
Reinforced Concrete Frames, Moment Redistribution in——Yi-Lung Mo 9, 105
Reinforced Concrete Plates Subject to Biaxial In-Plane Forces and Biaxial Moments, Design of——Chaug-Ching Lan and Tsung-Wu Lin 10, 399
Reinforced Concrete Panels Subjected to Combined Tension and Shear, Design of——Chao-Yin Lin ... 8, 405
Reinforcing Bars Subjected to a Monotonic Pull Loading, Loading, Load-Slip Relationships for——Ing-Jaung Lin and Huu-Ming Sung 7, 101
Relationship Between the Eigenstructures and Trajectory Sensitivity of Autonomous Linear Time-Invariant Systems, The——I-Kong Fong, Chen-Fa Hsu, Min-Yen Wu and Te-Son Kuo 8, 373
Reliability Analysis of Plastic Frameworks, Automated——Hak-Fong Ma 8, 109
Reliability-Based Design for Space Steel Frames——Yin-Yu Chen and Deh-Shiu Hsu 7, 1
Removal of Lindane from Water by Activated Carbon in the Bisolute Adsorption System——Szu-Kung Tseng 9, 365
Repeated Pull Loading, Bond-Slip Characteristics for Reinforcing Bars under——Ing-Jaung Lin and Eng-Muh Chang 8, 213

Rigid Body Displacements for the Determination of Rigid Body Rotations of Structural Members in the Slope-Deflection Method, A Method of Combining——Chang-Ping Chiou 9, 505
River Mouth, A Model for Shoreline Evolution Around a——Ming-Chung Lin and Jyh-Cherng Wang 6, 141
Robotic Manipulators, An Adaptive Control Strategy for——Chang-Huan Liu and Chen-Sheng Ting... 8, 251
Robotic Manipulators, The Dynamics and Control of——Chang-Huan Liu..... 8, 201
Robust Optimization in Multivariable Systems, LQG Optimal Controller Synthesis with——Feng-Hsiag Hsiao and Bor-Sen Chen.....10, 517
Robust Optimization of Multivariable Systems with Time-Varying Nonlinear Perturbation, The——Feng-Hsiag Hsiao and Bor-Sen Chen.....10, 317
Robustness of Multivariable Feedback Systems, Frequency Domain Analysis for Stability——Yau-Tarng Juang, Chen-Fa Hsu, Te-Son Kuo and Sheng-De Wang 10, 177
Robustness of Systems with Uncertain Parameters, Allowable Perturbations for the Stability——Yau-Tarng Juang, Chen-Fa Hsu, Te-Son Kuo and Jinn-Fwu Wu 10, 665
Rotary Effect on the Constitutive Equation of a Rotational Deformable Object——Hong-Ki Hong and Lei Hin-Chi..... 9, 223
S-curves for the Symbol Synchronizers, A Graphic Approach to Draw the——Jung-Hui Chiu and Lin-Shan Lee 9, 317
Salt Effect of Lithium Bromide on the Solution Polymerization of Acrylonitrile——Chuh-Yung Chen, Jen-Feng Kuo, Schon-Youh Shieh and Jih-Gang Tornt..... 9, 259
Sampled-Data Load Frequency Controllers Using Parameter Plane Method, The Design of——Yuan-Yih Hsu and Chi-Jui Wu 9, 89
Sands, Dilatancy Rate for Evaluating Liquefaction Potential of——Tzou-Shin Ueng 9, 241
Schottky Barrier Spectral Response Measurement, Determination of $Al_xGa_{1-x}As$ Bandgap by——Hao-Hsiung Lin and Si-Chen Lee 9, 317
Seals, Dynamics of Clearance-Type Mechanical——Kuo-Shong Wang and Wei-Ren Chen 9, 127
Searching Technique, Performance Analysis of a k-Nearest Neighbor——Chin-Chen Chang and Jenn Liang..... 8, 157
Self-Testing Approach, Automatic Test Program Generation for Analog Circuits: The——Chyun-Shin Cheng, Yih-Yih Wu, Da-Hong Chen and Chwan-Chia Wu.....10, 453
Sensitivity Analysis of an Energy-Recovery System, Techno-Economic Evaluation and——Krystal Mingjer Lee and Yen-Shiang Shih 8, 85
Sensitivity Approach, Derivation of the Internal Coupling Relations of an Analog Circuits via——Chwan-Chia Wu and Jinn-Ming Lin 10, 363
Sensitivity Controllers for Discrete-Time Systems, Low——Ching-Tien Liou and Tsing-Yee Tu 8, 381
Sensitivity State Feedback Regulator, Two New Methods for the Synthesis of Low——I-Kong Fong, Te-Son Kuo, Chen-Fa Hsu and Min-Yen Wu 9, 179
Shear, Design of Reinforced Concrete Panels Subjected to Combined Tension and——Chao-Yin Lin... 8, 405
Shell Progressive Poisoning Model, Transfer Coefficients on the——Tshung-Yee Lee and Ching-Tien Liou 8, 231
Shifted Legendre Polynomials in Analysis of Dynamic Systems, Application of——Ron-Yeu Chang and Maw-Ling Wang 6, 235
Shifted Legendre Polynomials, Solution of Partial Differential Equation of Population Balance by——Maw-Ling Wang and Rong-Yeu Chang..... 6, 31
Shoreline Evolution Around a River Mouth, A Model for——Ming-Chung Lin and Jyh-Cherng Wang 6, 141
Si:H:F Alloys, Percolation Process in High Conductivity Phosphorus Doped Amorphous——Si-Chen Lee and Shyh-Shi Chao 6, 245
Signal Processing of Electrocardiograms by the Linear Predictive Method, Digital——Kang-Ping Lin and Soo-Chang Pei 8, 181
Signals with Frequency-Shifted Replicas, Detection of——Siu-Kay Chow 9, 83
Simulation of Mixed Traffic Flow, A Preliminary Study on the——Yi-Hwa Chou and Tien-Tsyh Chen 6, 65
Size Distribution on the Combustion Efficiency of a Liquid Propellant Rocket Motor, Effects of——Kwan-Kit Chan and Long Chyn 8, 411
Size Measuring Instruments, Effect of Particle Agglomeration on the Results from Two Different——Kan-Sen Chou and Feng-Renn Jean 8, 305
Slip Characteristics for Reinforcing Bars under Repeated Pull Loading, Bond——Ing-Jaung Lin and Eng-Muh Chang..... 8, 213
Slip on Graetz Problem of Power Law Fluids with Second Kind Boundary Condition, Effects of——Yi-Hsu Ju and Wen-Chien Lee..... 7, 141
Slip Relationships for Reinforcing Bars Subjected to a Monotonic Pull Loading, Load——Ing-Jaung Lin and Hou-Ming Sung 7, 101

Slope-Deflection Method, A Method of Combining Rigid Body Displacements for the Determination of Rigid Body Rotations of Structural Members in the——Chang-Ping Chiou 9, 505
Slopes, A Limit Equilibrium Method for Analyzing Progressive Failure in——Rong-Her Chen and Biing-Lurng Jiang 9, 345
Slotted Random Access Networks, A Study on the Interconnection of——Jean-Lien C. Wu, Jing-shown Wu and Ho-Ting Wu..... 10, 605
Solar Water Heating Systems, An Optimal Design of——Cheng-Wen Pwu and Kuo-Shong Wang..... 7, 11
Solid-Fluid Conjugated Problems with Applications in the Capillary Die Heat Transfer, Solutions of——Yi-Hsu Ju and Wen-Chien Lee..... 8, 239
Solutions of Solid-Fluid Conjugated Problems with Applications in the Capillary Die Heat Transfer——Yi-Hsu Ju and Wen-Chien Lee..... 8, 239
Sorption and Diffusion of Alcohol-Benzene Mixtures in Dowex MSC-1——Shih-Chen Chien and Ting-Yueh Lee 8, 17
Spatial Distribution of Transportion—An Alternative Approach and Evaluation, A Study of the——Hsiao-Fan Wang 8, 223
Speaker Identification via LPC and Tone Structure of Mandarin Speech, Text-Independent——Sin-Horng Chen and Min-Tau Lin 10, 555
Spectral Analysis to Earthquake Data, Applications of Correlation and——Chin-Hsiung Loh..... 9, 117
SPICE2, A Modified *Y*-Parameter Model for Computer-Aided Analysis Using——Wen-Lin Jung 9, 157
Spirulina Platensis, Growth Kinetics and Cultivation of——Shih-Yow Huang and Chao-Peng Chen... 9, 355
Sprays, An Experimental Technique for the Measurement of Flame Propagation in Heterogeneous Fuel——Kwan-Kit Chan and Chorng Shyr Jou 8, 423
Square Prism, Finite Element Solutions for Laminar Flow and Heat Transfer Around a——King-Leung Wong and Cha'o-Kuang Chen..... 9, 605
Stability Analysis of Arbitrary Shape Landslope by Variational Calculus and Finite Difference Method——Lai-Yun Wu 10, 473
Stability Array and MSE Criterion for the Reduction of Discrete-Time Systems, A Combined Method Using Modified Routh——Chyi Hwang 9, 647
Stability of a Binary Fluid Layer with Freezing, Linear——Jong-Jhy Jou 9, 141
Stability of Immobilized Glucose Isomerase, Effects of Substrate Protection and Intraparticle Diffusion on the——Kuo-Cheng Chen, Chan-Shing Lin and Juan-Yih Wu..... 8, 365
Stability of Quasi-Stationary Tracking Systems with Parameter Variations, Asymptotic——Ching-Tien Liou and Ching-Tien Yang 9, 423
Stability Robustness of Multivariable Feedback Systems, Frequency Domain Analysis for——Yau-Tarng Juang, Chen-Fa Hsu, Te-Son Kuo and Sheng-Da Wang 10, 177
Stability Robustness of Systems with Uncertain Parameters, Allowable Perturbations for the——Yau-Tarng Juang, Chen-Fa Hsu, Te-Son Kuo and Jinn-Fwu Wu 10, 665
Stabilization, Tracking and Disturbance Rejection, Inverse Problems of Linear Feedback Control Systems——Jer-Guang Hsieh and Kuo-Hsien Hsiah 10, 273
Standing Waves, A New Approach to Analyze Nonlinear——Ching-Piao Tsai, Yang-Yih Chen, Frederick L. W. Tang and H. H. Hwang..... 10, 233
Starved Lubrication of Ball Bearings, The Influence of Surface Roughness on the——Hon So, Shyh-Jye Kao and Chin-Rong Chen 10, 33
State Feedback Regulator, Two New Methods for the Synthesis of Low Sensitivity——I-Kong Fong, Te-Son Kuo, Chen-Fa Hsu and Min-Yen Wu 9, 179
State-Space Model to Jordan Continued Fraction Expansion Canonical Form, A Transformation of——Chyi Hwang and Yen-Ping Shih 7, 291
Static Analysis of Cable in Nonuniform Current, 3D——Wei-Yuan Hwang and Wen-Wu Liu 7, 159
Steel Frames Exposed to a Fire Environment, Temperature Distribution in——Jiann-Quo Tarn, Jenn-Chuan Lay and Yi-Bin Wang..... 10, 615
Steel Frames, Reliability-Based Design for Space——Yin-Yu Chen and Deh-Shiu Hsu 7, 1
Stiff Equations, Application of Modified Laguerre Polynomials in Analysis of——Maw-Ling Wang and Chih-Kao Chou 7, 133
Stirred Tanks and a Simplified Measuring Method, Effect of Probe Orientation on Hot-Film/CAT Velocity Measurements in——Wei-Ming Lu and Hsuan Chen 8, 399
Storm Surges, A Semi-Implicit Numerical Model for——Robert R. Hwang and Chia-Chi Yao 10, 463
Streamflow of the Tanshui River Basin Using Disaggregation Models, The Generation of Ten-Day Period——Jan-Tai Kuo and Feng-Rong Yang..... 10, 1
Strength of an Al-7 w/o Ni Alloy, The Effects of the Morphology of Al_3Ni on the——Ming-Pan Hung 7, 37
Stress Relaxation of the 1, 2-Syndiotatic Polybutadiene Thermoplastic Elastomer, The——Ging-Ho Hsiue and Sheng-Chang Wu 8, 357
Stresses due to Homogeneous Inclusions with Long Elliptical Cylindrical Shape, Elastic——Sanboh Lee 8, 25

Structural Dynamics, An Unconditional Stable Implicit Direct Integration Method for Linear——Ching-Lung Liao 9, 333
Study of the Spatial Distribution of Transportation—An Alternative Approach and Evaluation, A——Hsiao-Fan Wang 8, 223
Subharmonic Excitations of Machine-Isolator-Floor Systems, Second Harmonic and 1/2——Rong-Tyai Wang and Kuo-Shong Wang 8, 7
Suction and Injection, Unsteady Thermal Entrance Heat Transfer of Laminar Duct Flows with Wall——Hsiao-Tsung Yu and Yen-Ping Shih 10, 157
Supervisory Control in Flexible Manufacturing Systems: Allocation of Functions and System Size, Human——Sheue-Ling Hwang 10, 251
Surface Poisoning in a Plug Flow Reactor, Catalyst Deactivation by——Yu-Wen Chen and Charles M. Ablow 10, 183
Surface Roughness on the Starved Lubrication of Ball Bearings, The Influence of——Hon-So, Shyh-Jye Kao and Chin-Rong Chen 10, 33
Surface Waves in Elliptical Channels, Progressive——William Chin-Hwa Kong 9, 9
Switching System, The Design and Implication of Packet——Shiow-Yuan Huang 7, 61
Symbol Synchronizers, A Graphic Approach to Draw the S-Curves for the——Jung-Hui Chiu and Lin-Shan Lee 9, 417
Synthesis of Low Sensitivity State Feedback Regulator, Two New Methods for the——I-Kong Fong, Te-Son Kuo, Chen-Fa Hsu and Min-Yen Wu 9, 179
System Identification with Deterministic Aperiodical Input, A Method of——Fwu-Ren Liann and Shih-Chang Lin 8, 143
System Model for Chinese Character Fonts Generation, A——Kuo-Young Cheng and Keh-Jiann Chen 6, 175
Systolic Algorithms for the Longest Common Subsequence Problem——Chang-Biau Yang and R. C. T. Lee 10, 691
Tandem Arrangement, Analysis of Laminar Newtonian Fluid Flowing Around Two Spheres in a——Maw-Ling Wang, Rong-Yeu Chang and I-Yao Chung 10, 573
Tangent Phase Continued-Fraction Expansion, Stable Linear System Reduction via a Multipoint——Chi Hwang and Muh-Yang Chen 10, 417
Tanshui River Basin Using Disaggregation Models, The Generation of Ten-Day Period Streamflow of the Jan-Tai Kuo and Feng-Rong Yang 10, 1
Task Assignment in Loosely-Coupled Multiprocessor Systems——Wen-Tsuen Chen and Jang-Ping Sheu 10, 721
Techniques of Progress Monitoring and Priority Control in an MRP System, The——Tsung-Shin Hsu 8, 75
Techno-Economic Evaluation and Sensitivity Analysis of an Energy-Recovery System——Krystal Mingjer Lee and Yen-Shiang Shih 8, 85
Tension and Shear, Design of Reinforced Concrete Panels Subjected to Combined——Chao-Yin Lin ... 8, 405
Text-Independent Speaker Identification via LPC and Tone Structure of Mandarin Speech——Sin-Horng Chen and Min-Tau Lin 10, 555
TFM Digital Modem, Design and Implementation of a High Efficiency——Hen-Wai Tsao, Tung-Sen Cheng and Lin-Shan Lee 7, 43
Thermal Conductivity of Polar Pure Liquids, Prediction of the——Rex Mao-Hsin Chiu, Bao-Dong Chen and Wen-Nan Chien 10, 329
Thermal Diffusion on the Growth Rate of CdTe by MOCVD, Analysis of the Effect of Mass Transfer and——Yu-Hua Lee, Ing-Ruey Liao, Kan-Sen Chou and Min-Shyong Lin 10, 391
Thermal Entrance Heat Transfer of Laminar Duct Flows with Wall Suction and Injection, Uusteady——Hsiao-Tsung Lin, Wen-Shing Yu and Yen-Ping Shih 10, 157
Thermal Expansion Coefficients and Conductivities, A Differential Scheme for Multiphase Composites: II.——Jiann-Quo Tarn and Yung-Ming Wang 6, 83
Thermoplastic Elastomer, The Stress Relaxation of the 1, 2-Syndiotatic Polybutadiene——Ging-Ho Hsiue and Sheng-Chang Wu 8, 357
Time-Division Multiplexed Services and Non-Zero Walktime, A Discrete-Time Multiquene-Multi-server System with——Jin-Fu Chang 10, 561
Time-Partition Method, Analytical Solutions of Delay-Defferential Equation via a——Yen-Ping Shih and Sheng-Tsaing Tseng 10, 123
Tomograms, Image Reconstruction of Microwave——Hsueh-Jyh Li 7, 255
Tone Structure of Mandarin Speech, Text-Independent Speaker Identification via LPC and——Sin-Horng Chen and Min-Tau Lin 10, 555
Torsional Problems of a Cylindrical Anisotropic Elastic Medium, Fundamental Solutions for——Jiann-Quo Tarn -nd Yung-Ming Wang 9, 1
Torsional Problems of Nonhomogeneous Transversely Isotropic Media, Fundamental Solutions for——Jiann-Quo Tarn and Yung-Ming Wang 9, 187

Tracking and Disturbance Rejection, Inverse Problems of Linear Feedback Control Systems: Stabilization——Jer-Guang Hsieh and Kuo-Hsien Hsiah....10, 273
Tracking Systems with Parameter Variations, Asymptotic Stability of Quasi-Stationary——Ching-Tien Liou and Ching-Tien Yang.... 9, 423
Trajectory Sensitivity of Autonomous Time-Invariant Systems, The Relationship Between the Eigenstructures and——I-Kong Fong, Chen-Fa Hsu, Min-Yen Wu and Te-Son Kuo 8, 373
Transfer Coefficients on the Shell Progressive Poisoning Model——Tshung-Yee Lee and Ching-Tien Liou 8, 231
Transformation of Continuous-Time State Equations to Discrete-Time State Equations——Chyi Hwang and Chee-Fai Yung 8, 389
Transformation, Parameter Identification of Discrete Systems via Discrete Chebyshev——Ruey-Yinn Hwang and Yen-Ping Shih.... 8, 153
Transient Diffusion Through a Porous Plate Between Two Compartments——Hung-Shan Weng and Yuh-Fong Tszeng 10, 435
Transient Ignition on a Flat Plate——Shih-Tuen Lee and Chau-Chih Chen 9, 391
Transportation—An Alternative Approach and Evaluation, A Study of the Spatial Distribution of——Hsiao-Fan Wang.... 8, 223
Transversely Isotropic Elastic Space, A Fundamental Solution for a——Jiann-Quo Tarn and Yung-Ming Wang 10, 13
Transversely Isotropic Media, Fundamental Solutions for Torsional Problem of Nonhomogeneous——Jiann-Quo Tarn and Yung-Ming Wang.... 9, 187
Tubes, Natural Convection Effects on Laminar Heat Transfer in the Thermal Entrance Region of Horizontal Isothermal——Guang-Jyh Hwang and Min-June Lin 8, 343
Turbulence Measurements in a 90° Square Duct Using Laser-Doppler Velocimetry——Tong-Miin Liou and Cheng-Hsin Liu 9, 19
Two Spheres in a Tandem Arrangement, Analysis of Laminar Newtonian Fluid Flowing Around——Maw-Ling Wang, Rong-Yeu Chang, and I-Yao Chung 10, 573
Two-Level Hierarchical Decision Processes, A Solution Procedure for the Resource Control Problem in——Ue-Pyng Wen 6, 91
Two-Phase Testing Technique for Analog Fault Diagnosis Systems, A——Chwan-Chia Wu 9, 213
Universal Active Filter Using Generalized-Immittance Converter Biquads, Design of a——Shao-Shiun Chung.... 6, 43
Unsteady Thermal Entrance Heat Transfer of Laminar Duct Flows with Wall Suction and Injection——Hsiao Tsung Lin, Wen-Shing Yu, and Yen-Ping Shih....10, 157
Variable-Structure System in DC-Motor Velocity-Control, Application of——Jong-Lick Lin and Wen-Tay Lin 10, 201
Variational Calculus and Finite Difference Method, Stability Analysis of Arbitrary Shape Landslope by——Lai-Yun Wu....10, 473
Varying Spindle Speed Cutting of Turning Operations, Investigation of the Adaptability of——Yunn-Shiuan Liao and Jin-Cheng Shen....10, 23
Ventilation Flows in Laboratory Studies of Surface, Buoyant Discharges, For——Ray R. Wang 10, 305
Vibration Spectrum Pattern Recognition, Defective Ball Bearing Detection Using——Ching-Huan Tseng and Shih-Fu Ling.... 6, 201
Viscosities of Binary and Ternary Systems of Acrylonitrile, Acetonitrile, and Water——Rex Mao-Hsin Chiu, Han-Chin Twu, and Chi-Tsung Huang 7, 279
Viscosity Models for Miscible Binary and Ternary Liquid Mixtures, Assessment and Improvement of——Rex Mao-Hsin Chiu, Wen-Nan Chien and Chen-Chi Wei.... 9, 307
Viscous Flow Past a Circular Cylinder, Time-Dependent Icompressible——Robert R. Hwang, Te-Pu Chiang, and Mau-Tse Chiao 9, 617
Viscous Dissipation in the Infinite Axial Region Between Parallel Plates via Functional Analytic Methods, Solution of Low Péclet Number Heat Transfer with——Ching-Tien Liou and Feng-Sheng Wang.... 9, 521
Viscous Dissipation in the Semi-Infinite Axial Region of a Tube via Functional Analytic Methods, Solution of Low Péclet Number Heat Transfer with——Ching-Tien Liou and Feng-Sheng Wang 9, 497
Viscous Flow Between Parallel Plates with Heat Generation——En-Tsung Chen and Ching-Tien Liou 9, 69
VLSI CORDIC Algorithms, Architecture and Chip Design, High Performance——Tze-Yun Sung, Tai-Ming Parng, and Yu-Hen Hu 10, 493
Voice Scrambling Scheme—A New Technique for Secure Communications, Direct Sequence——Jung-Hui Chiu and Lin-Shan Lee 8, 397
Walktime, A Discrete-Time Multiquene-Multiserver System with Time-Division Multiplexed Services and Non-Zero——Jin-Fu Chang 10, 561
Wastewater Treatment Pilot Plant and Operation Problems, Design of——Chi-Yuan Lee.... 6, 183

Water, Effect of Prezonation on Organics Coagulation Removal from——Hsuan-Hsien Yeh and Jyh-Ming Chen 10, 335
Water Soluble Polyester Surfactant, Interaction Between Disperse Dye and——Ken-Ming Chen..... 10, 579
Wave Diffraction, Finite/Infinite Element Analysis of——Min-Chih Huang..... 8, 1
Wave Refraction and Diffraction Near a Breakwater, Combined——Ming-Chung Lin and Yeong-Fang Chiou 8, 325
Waves, The Pressure Characteristics of Random Water——Yi-Yu Kuo and Her-Yuan Chen 6, 1
With Blowing and Suction, Laminar Free Convection over a Horizontal Circular Cylinder——Ming-Jer Huang and Cha'o-Kuang Chen 6, 209
Wool Dyeing, The Aggregative Effect of Acid Dyestuff (Orange II) on the Activation Energy of——Meng-Shung Yen and Horng-Yee Lee 9, 587
Y-Parameter Model for Computer-Aided Analysis Using SPICE2, A Modified——Wen-Lin Jung 9, 157
σ-Stability and Characterization of all σ-Stabilizing Compensators——Jer-Guang Hsieh and Cheng-Feng Sze 10, 309
σ-Stabilizing Compensators, σ-Stability and Characterization of All——Jer-Guang Hsieh and Cheng-Feng Sze 10, 309

TITLE INDEX (Vol. 6-10)

Ablation Problem in a Finite Medium with Time-Dependent Heat Flux, An——Jir-Ming Char 7, 211
Adaptive Control Strategy for Robotic Manipulators, An——Chang-Huan Liu and Chen-Sheng Ting... 8, 251
Adaptive Controller with Optimal Quadratic Pole and Zero Assignment, An——Kwok-Wai Cheung and Mi-Ching Tsai..... 10, 75
Adaptive PID Control Based on Explicit Criterion Minimization——Fwu-Ren Liann and Shih-Chang Lin 9, 569
Aggregative Effect of Acid Dystuff (Orange II) on the Activation Energy of Wool Dyeing, The ——Meng-Shung Yen and Horng-Yee Lee 9, 587
AlGaAs/GaAs Oxide-Stripe Double-Heterostructure Laser, An——Ming-Huei Shieh, Hao-Hsiung Lin, Si-Chen Lee, and Yuin-Lei Chiou 8, 191
AlGaAs/GaAs V-Groove Channeled Substrate Buried Heterostructure Laser Diodes——Jiahn-Ann Chen, Si-Chen Lee, and Hao-Hsiung Lin 8, 311
Allowable Perturbations for the Stability Robustness of Systems with Uucertain Parameters——Yau-Tarng Jyang, Chen-Fa Hsu, Te-Son Kuo, and Jinn-Fwu Wu 10, 665
Analysis and Design of a High Efficiency Sinusoidal Inverter——Kuen-Huei Cheng and Chang-Huan Liu 7, 245
Analysis of an Immobilized Lactase Reactor——Kuo-Cheng Chen, Chi-Ming Chang, Chi-Chiu Ling, and Fu-Shiow Yin..... 7, 187
Analysis of Chemical Reaction System with Non-Ideal Mixing——Ching-Tien Liou, Yi-Sui Chien, and Wei-Shin Chen 6, 127
Analysis of First-Order Partial Differential Equations via Shifted Chebyshev Polynomials——Jen-Yu Liu 9, 301
Analysis of Laminar Newtonian Fluid Flowing Around Two Spheres in a Tandem Arrangement——Maw-Ling Wang, Rong-Yeu Chang, and I-Yao Chung 10, 573
Analysis of the Delay Systems Without Time Partition——Wen-Liang Chen..... 6, 61
Analysis of the Effect of Mass Transfer and Thermal Diffusion on the Growth Rate of CdTe by MOCVD——Yu-Hua Lee, Ing-Ruey Liao, Kan-Sen Chou, and Min-Shyong Lin 10, 391
Analysis Study of Wave-Induced Nearshore Currents——Ming-Chung Lin and Jiing-Yih Liou 9, 437
Analytical Solutions of Delay-Differential Equations via a Time-Partition Method——Yen-Ping Shih and Sheng-Tsaing Tseng 10, 123
Application of Chebyshev Polynomials in Analysis and Identification of Linear Systems——Yen-Min Shih 6, 135
Application of Experimental Design—An Improvement of a Golden Mill, An——Chang-Chung Li ... 7, 207
Application of Modified Laguerre Polynomials in Analysis of Stiff Equations——Maw Ling Wang and Chih-Kao Chou 7, 133
Application of Orthogonal Functions in Analysis of Sturm-Liouville Eigenvalue Proplems——Ching-Tien Liou and Yi-Shyong Chou 9, 581
Application of Shifted Legendre Polynomials in Analysis of Dynamic Systems——Ron-Yeu Chang and Maw-Ling Wang..... 6, 235
Application of the Parameter Plane Method to the Design of a Digital Power System Stabilizer——Yuan-Yih Hsu and Chi-Jui Wu 10, 167
Application of Variable-Structure System in DC-Motor Velocity-Control——Jong-Lick Lin and Wen-Tay Lin 10, 201

Applications of Correlation and Spectral Analysis to Earthquake Data——Chin-Hsiung Loh 9, 117
Approach to the Implementation and Verification of Abstract Data, An——Chien-Chiao Yang and Ming-Lien Lee 9, 323
Assessment and Improvement of Viscosity Models for Miscible Binary and Ternary Liquid Mixtures——Rex Mao-Hsin Chiu, Wen-Nan Chien, and Chen-Chi Wei 9, 307
Asymptotic Stability of Quasi-Stationary Tracking Systems with Parameter Variations——Ching-Tien Liou and Ching-Tien Yang 9, 423
Automated Reliability Analysis of Plastic Frameworks——Hak-Fong Ma 8, 109
Automatic Test Program Generation for Analog Circuits: The Self-Testing Approach——Chyun-Shin Cheng, Yih-Yih Wu, Da-Hong Chen, and Chwan-Chia Wu 10, 453
Behavior of Reinforcing Bars Under Compressions, The——Ching-Lung Liao 9, 275
Bit-Sliced Design for a Programmable Digital Filter, A——Yung-Chang Chen and Nan-Chang Lin... 6, 153
Bitterns as Coagulants for Treatment of Color Effluents——Sung-Bin Wang and Kenneth Y. Chen... 7, 109
Bond-Slip Characteristics for Reinforcing Bars under Repeated Pull Loading——Ing-Jaung Lin and Eng-Muh Chang 8, 213
Catalyst Deactivation by Surface Poisoning in a Plug Flow Reactor——Yu-Wen Chen and Charles M. Ablow 10, 183
Channel Imbalance Phenomena and Error Bias Analysis in PN Code Tracking Loops, The——Yung-Dar Huang 8, 67
Characterization Surface Porfiles of LPCVD Silicon Nitride Films by RBS-Profile——Yuh-Chyoung Chen, Huey-Liang Hwang, Cheng-Ming Fou, and Jung-Chen Liue 10, 195
C-H-O Systems in the Presence of Iron Oxide and Iron Carbide——Yu-Wen Chen 10, 107
Combined Method Using Modified Routh Stability Array and MSE Criterion for the Reduction of Discrete-Time Systems, A——Chyi Hwang 9, 647
Combined Wave Refraction and Diffraction Near a Breakwater——Ming-Chung Lin and Yeong-Fang Chiou 8, 325
Comparison of the Homogeneous and the Heterogenizing Homogeneous Co^{3+} Catalyst in the Synthesis of Organic Peroxides——Tse-Chuan Chou, Bing-Joe Hwang and Cheng-Chieh Lee 10, 441
Computational Algorithm for Catalysis Expeiencing Concentration-Dependent Deactivation, A——Hor-Da Juang and Hung-Shan Weng 7, 77
Computer Aided Design System for Artistic Chinese Fonts, A——Keh-Jiann Chen, Chien-Chiao Yang and Wei-Chiao Wu 9, 431
Computer-Aided Design and Analysis of Three-Phase Induction Motors——Chang-Huan Liu and Hsien-Chung Chang 8, 31
Computer Simulator for Concurrent Processors, A——Chi-Keng Chang and Kuo-An Hwang 10, 447
Concurrent Error Correction in Unidirectional Linear Arrays——Chwan-Chia Wu 10, 225
Constitutive Model for Saturated Compacted Soils Under Undrained Shear Condition, A——Rong-Her Chen and Jiann-Jyh Wang 10, 639
Current-Gain Degradation and Failure Rate Prediction in Bipolar Junction Transistors——Cheng-Kuang Liu and Wei Lee 10, 503
Defective Ball Bearing Detection Using Vibration Spectrum Pattern Recognition——Ching-Huan Tseng and Shih-Fu Ling 6, 201
Derivation of the Internal Coupling Relations of an Analog Circuits via Sinsitivity Approach——Chwan-Chia Wu and Jiin-Ming Lin 10, 363
Design and Fabrication of a Monodisperse Aerosol Generator, The——Kwan-Kit Chan and Long-Jen Chen 7, 271
Design and Implementation of a High Efficiency TFM Digital Modem——Hen-Wai Tsao, Tung-Sen Cheng, and Lin-Shan Lee 7, 43
Design and Implication of Packet Switching System, The——Shiow-Yuan Huang 7, 61
Design and Manufacture of an Optimum Face Milling Cutter, The——Tien-I Liu 6, 189
Design of a Multi-Speed PSK MODEM, The——Jeffrey Lin, Hen-Wai Tsao and Jin-Fu Chang 8, 171
Design of Universal Active Filter Using Generalized-Immittance Converter Biquads——Shao-Shiun Chung 6, 43
Design of Letter Oriented Minimal Perfect Hashing Functions, On the——Chin-Chen Chang and Jiann-Cherng Shieh 8, 285
Design of Low Sensitivity Controllers: Frequency Domain Technique——Ching-Tien Liou, Tsing-Yee Tu, and Yung-Chun Wu 8, 41
Design of Low Sensitivity Controllers: Prerregulator Approach——Ching-Tien Liou, Tsing-Yee Tu, and Yung-Chun Wu 8, 49
Design of Reinforced Concrete Panels Subjected to Combined Tension and Shear——Chao-Yin Lin... 8, 405
Design of Reinforced Concrete Plates Subject to Biaxial In-Plane Forces and Biaxial Moments——Chaug-Ching Lan and Tsung-Wu Lin 10, 399
Design of Sampled-Data Load Frequency Controllers Using Parameter Plane Methods, The——Yuan-Yih Hsu and Chi-Jui Wu 9, 89

Design of Wastewater Treatment Pilot Plant and Operation Problems——Chi-Yuan Lee 6, 183
Detection of Signals with Frequency-Shifted Replicas——Siu-Key Chow..... 9, 83
Determination of $Al_xGa_{1-x}As$ Bandgap by Schottky Barrier Spectral Response Measurement——Hao-Hsiung Lin and Si-Chen Lee 9, 317
Diagnosibility of Nonlinear Fault Diagnosis with Multiple Test Vectors——Chwan-Chia Wu..... 9, 51
Differential Scheme for Multiphase Composites: I. Overall Elastic Moduli, A——Jiann Quo Tarn and Yung-Ming Wang 6, 73
Differential Scheme for Multiphase Composites: II. Thermal Expansion Coefficients and Conductivities, A——Jiann-Quo Tarn and Yung-Ming Wang 6, 83
Digital PN Signal Correlator with Improved Performance, A——Jung-Hui Chiu and Lin-Shan Lee ... 9, 527
Digital Signal Processing of Electrocardiograms by the Linear Predictive Method——Kang-Ping Lin and Soo-Chang Pei 8, 181
Digital Synthesis of Mandarin Speech Using Its Special Characteristics——Shaw-Min Lei and Lin-Shan Lee 6, 107
Dilatancy Rate for Evaluating Liquefaction Potential of Sands——Tzou-Shin Ueng 9, 241
Direct Indication of Interface Trap States in an MOS Capacitor from the Peaks of Optical Illumination-Induced Capacitances——Jenn-Gwo Hwu and Way-Seen Wang 10, 429
Direct Sequence Voice Scrambling Scheme—A New Technique for Secure Communications——Jung-Hui Chiu and Lin-Shan Lee..... 8, 397
Discrete-Time Multiqueue-Multisever System with Time-Division Multiplexed Services and Non-Zero Walktime, A——Jin-Fu Chang 10, 561
Doppler Effect and Its Influence on Low-Altitude CW Altimeters——Yo-Yu Sun 7, 221
Doubly Pipelined CORDIC Array for Digital Signal Processing Algorithms——Tze-Yun Sung, Tai-Ming Parng and Yu-Hen Hu.....10, 375
Driven Nonlinear Circuit and Chaotic Behaviour, On a——W. H. Steeb 10, 717
Dynamic Characteristics of a Double-Raw Multirecess Externally Pressurized Journal Bearing——Shui-Shong Lu, Pao-San Huang, and Fu-Tsai Lee 9, 557
Dynamic Data Compression Algorithms in Speech Coding——Jeng-Neng Hwang and Lin-Shan Lee... 8, 261
Dynamics and Control of Robotic Manipulators, The——Chang-Huan Liu..... 8, 201
Dynamics of Clearance-Type Mechanical Seals——Kuo-Shong Wang and Wei-Ren Chen..... 9, 127
Dynamics Steady Crack Propagation of Antiplane Shear in an Elastic Perfectly Plastic Material ——Chien-Ching Ma.....10, 657
Effect of Aspect Ration on the Air Flow in Curved 90° Ducts with Uniform Inlet Condition, The——Tong-Miin Liou and Sing-Maw Wu.....10, 147
Effect of Blood Flow Phenomena on Oxygenation Efficiency, The——Tze-Wen Chung and Chau-Jen Lee 6, 51
Effect of Interfacial Resistance on Gas Absorption with Chemical Reaction: The Film Theory Model, The——Ching-Yuan Chang, Dong-Chir Hwang, and Chu-Liang Deng 10, 191
Effect of Particle Agglomeration on the Results from Two Different Size Measuring Instruments——Kan-Sen Chou and Feng-Renn Jean 8, 305
Effect of Pore Diffusion on the Rate of Mathanation Reaction in a Heterogeneous Catalyst——Yu-Wen Chen..... 8, 299
Effect of Power System Stabilizers and Load Frequency Controllers on Power System Dynamic Stability——Chung-Yu Hsu, Li-Ming Chen, Kan-Lee Liou, and Yuan-Yih Hsu 8, 135
Effect of Preozonation on Organics Coagulation Removal from Water——Hsuan-Hsien Yeh and Jyh-Ming Chen 10, 335
Effect of Probe Orientation on Hot-Film/CTV Velocity Measurements in Stirred Tanks and a Simplified Measuring Method——Wei-Ming Lu and Hsuan Chen..... 9, 399
Effect of Tool Flank Wear on the Temperature Distribution of a Machined Workpiece, The——Zone-Ching Lin, Fu-Siang Chang, and Yang-Tai Lin 10, 353
Effects of Corrosion on Fatigue Crack Propagation in 2024-T3 Aluminum, The——Hon So, Jia-Yann Huang, and George C. Tu 9, 465
Effects of Size Distribution on the Combustion Efficiency of a Liquid Propellant Rocket Motor——Kwan-Kit Chan and Long Chyn 8, 411
Effects of Slip on Graetz Problem of Power Law Fluids with Second Kind Boundary Condition——Yi-Hsu Ju and Wen-Chien Lee..... 7, 141
Effects of Substrate Protection and Intraparticle Diffusion on the Stability of Immobilized Glucose Isomerase——Kuo-Cheng Chen, Chan-Shing Lin, and Juan-Yih Wu 8, 365
Effects of the Morphology of Al_3Ni on the Strength of an Al-7 w/o Ni Alloy, The——Ming-Pan Hung 7, 37
Efficient Speech Coding Techniques by Simplified Orthogonal Transformation——Jing-Chung Juan and Lin-Shan Lee 8, 317
Elastic Stresses due to Homogeneous Inclusions with Long Elliptical Cylindrical Shape——Sanboh Lee 8, 25

Elasto Plastic Analysis of Hydrostatic Bulging of a Circular Sheet, An——You Min Huang 10, 549
Elasto-Plastic Large Displacement Analysis of Cable Systems——Pao-Hsii Wang and Min Jong Wang 9, 451
Electrochemical Reaction of Methyl Pyridinium Chloride in Acetonitrile, The——Cheng-Sheng Lin, Yung Yun Wang, and Chi-Chao Wan 10, 385
Equations for Helical Gears with Pinion Circular Arc Teeth and Gear Involute Teeth——Chung-Biau Tsay 10, 45
Error Correction in Bit Sliced Systems with Redundancy in Time——Da-Hong Chen and Chwan-Chia Wu 10, 597
Estimation of the Intrinsic Kinetic Constants in the Immobilized Enzyme System——Kuo-Cheng Chen, Yung-Chan Liou, Ching-Liang Lai, Chien-Yu Chang, Long-Huei Wang, Shyang-Ling Sang, and Tann-Ching Chang 7, 181
Experimental Study of On-Line Computer Control Techniques Applied to a Double Pipe Heat Exchanger, An——Hun-I Chang and Jia-Huey Tsao 9, 149
Experimental Technique for the Measurement of Flame Propagation in Heterogeneous Fuel Sprays, An——Kwan-Kit Chan and Chorng Shyr Jou 8, 423
Fabrication of a Kilowatt Transverse Electrical Discharge CO_2 Laser, The——Kaung-Hsiuhg Wu ... 8, 57
Fabrication of Matched Cladding and Depressed Cladding Single Mode Optical Fibers——Yinn-Nien Huang and Spring-Zu Yang 9, 641
Fabrication of $Pb_{1-x}Sn_xTe/PbTe$ Heterojunctions by Liquid Phase Epitaxy——Yen-Ren Kao, Mei-Wen Wang, Huey-Liang Hwang, and Cherng-Yuan Sun 7, 233
Finite Element Solutions for Laminar Flow and Heat Transfer Around a Square Prism——King-Leung Wong and Cha'o-Kuang Chen 9, 605
Finite/Infinite Element Analysis of Wave Diffraction——Min-Chih Huang 8, 1
Flexible Subdivision Theorems for B Spline and Bézier Curves——Fuhua Cheng and Wen-Chiuan Liao 9, 97
Flow Field Measurements and Physical Processes in Confined Air-Water Jet——Shou-Shing Hsieh, Nihal E. Wijeysundra, and C. William Savery 9, 513
Flow in a Rectangular Channel with Sudden Contraction and Expansion, The——Tong-Miin Liou, Chii-Fang Kao, and Sing-Maw Wu 10, 139
Forced Convection Heat Transfer from Concentrated and Distributed Thermal Sources——Hsiao-Tsung Lin and June-Jye Chen 10, 681
Frequency Domain Analysis for Stability Robustness of Multivariable Feedback Systems——Yau-Tarng Juang, Chen-Fa Hsu, Te-Son Kuo, and Sheng-De Wang 10, 177
Functional Approximation for Inversion of Laplace Transforms, On a——Wen-Teng Wu and How-Rang Ong 6, 265
Functional Programming in Graphs——Wei Teh Huang 10, 87
Fundamental Solution for a Transversely Isotropic Elastic Space, A——Jiann-Quo Tarn and Yung-Ming Wang 10, 13
Fundamental Solutions for Torsionl Problems of a Cylindrical Anisotropic Elastic Medium——Jiann Quo Tarn and Yung Ming Wang 9, 1
Fundamental Solutions for Torsional Problems of Nonhomogeneous Transversely Isotropic Media——Jiann-Quo Tarn and Yung-Ming Wang 9, 187
Generlized Couette Flow in Channels of Irregular Cross Section——Ta-Jo Liu and Kuan-Chih Chen 10, 345
Generalized Geometric Programming with Both Equality and Inequality Constraints——Yun-Kung Chung 6, 269
Generation of Ferric Lixiviant by Bio-Oxidation of Pyrite for In-Situ Leaching——Tsuen-Ni Lung ... 7, 19
Generation of Ten-Day Period Streamflow of the Tanshui River Basin Using Disaggregation Models, The——Jan-Tai Kuo and Feng-Rong Yang 10, 1
Geometrical Effect on Laminar Mixed Convection in the Entrance Region of Shrouded Arrays of Heated Rectangular Blocks——Fu-Chu Chou and Jenn-Nan Lin 10, 709
Graphic Approach to Draw the S-Curves for the Symbol Synchronizers, A——Jung-Hui Chiu and Lin-Shan Lee 9, 417
Growth and Characterization of Vacuum Sublimed PbTe Crystals——Mei-Wen Wang, Yeh-Ren Kao, Huey-Liang Hwang, and Cherng-Yuan Sun 7, 287
Growth Kinetics and Cultivation of Spirulina Platensis——Shih-Yow Huang and Chao-Peng Chen ... 9, 355
Heat Transfer Analysis for Conjugate Free Convection-Conduction in a Vertical Plate Fin——Cha'o-Kuang Chen and Min-Jer Huang 7, 151
High Performance VLSI CORDIC Algorithms, Architecture and Chip Design——Tze-Yun Sung, Tai-Ming Parng, and Yu-Hen Hu 10, 493
Human Supervisory Control in Flexible Manufacturing Systems: Allocation of Functions and System Size——Sheue-Ling Hwang 10, 251

Hybrid Finite Strip Analysis of Multilayer Laminated Plates, A——Jiann-Quo Tarn and Dong-Lung Sa....10, 647
Identification of Linear Time-Invariant System with Deterministic Disturbance——Jing-Chung Shen and Fan-Chu Kung....10, 209
Identification of SMART-1 Array Data by Multifilter Technique——Chin-Hsiung Loh and Kuo-Lung Peng.... 8, 97
Image Reconstruction of Microwave Tomograms——Hsueh-Jyh Li.... 7, 255
Impact Model for Motions of a High-Speed Planning Boat in Regular Waves, An——Chun-Tsung Wang.... 7, 197
Inelastic Post Buckling Behavior of Very Short Column——Ching-Lung Liao and Sheng-Taur Mau... 8, 333
Influence of Surface Roughness on the Starved Lubrication of Ball Bearings, The——Hon So, Shyh-Jye Kao, and Chin-Rong Chen....10, 33
Interaction Between Disperse Dye and Water Soluble Polyester Surfactant——Keng-Ming Chen....10, 579
Internal Waves in an Elliptical Channel——Chin-Hwa Kong.... 9, 547
Inverse Problems of Linear Feedback Control Systems: Stabilization, Tracking and Disturbance Rejection——Jer-Guang Hsieh and Kuo-Hsien Hsiah....10, 273
Investigation of the Adaptability of Varying Spindle Speed Cutting on Turning Operations——Yunn-Shiuan Liao and Jin-Cheng Shen....10, 23
Key-Lock-Pair Mechanism Based on Generalized Chinese Remainder Theorem, A——Chin-Chen Chang and Chang-Pu Chen.... 9, 383
Laminar Boundary Layer Heat Transfer Along a Moving Plate with Suction or Blowing——Sun-Yuan Tsay and Chih-Kuang Ko.... 7, 265
Laminar Free Convection over a Horizontal Circular Cylinder with Blowing and Suction——Ming-Jer Huang and Cha'o-Kuang Chen.... 6, 209
Life Prediction for 2024-T3 Aluminium Alloy Subjected to Corrosion Fatigue, The——Hon So and and Wei-Han Kuo.... 9, 475
Limit Cycle Analysis of Power Systems——Chang-Ming Liaw, Ching-Tsai Pan, and Kuang-Wei Han...10, 263
Limit Equilibrium Method for Analyzing Progressive Failure in Slopes, A——Rong-Her Chen and Biing-Lurng Jiang.... 9, 345
Linear Stability of a Binary Fluid Layer with Freezing——Jong-Jhy Jou.... 9, 141
Load-Slip Relationships for Reinforcing Bars Subjected to a Monotonic Pull Loading——Ing-Jaung Lin and Hou-Ming Sung.... 7, 101
Low-Sensitivity Controllers for Discrete-Time Systems——Ching-Tien Liou.... 8, 381
LQG Optimal Controller Synthesis with Robust Optimization in Multivariable Systems——Feng-Hsiag Hsiao and Bor-Sen Chen....10, 517
Magnetohydrodynamic Poiseuille Flow Through a Porous Medium——Ampere A. Tseng.... 6, 251
Mathematical Modeling of the Iron Blast Furnace I: Longitudinal Distributions of the Process Variables, A——Cháo-Wen Chen and Chun-I Lin.... 8, 115
Mathematical Modeling of the Iron Blast Furnace II: The Effects of Changes of Operating Conditions, A——Cháo-Wen Chen and Chun-I Lin.... 8, 129
Method of Combining Rigid Body Displacements for the Determination of Rigid Body Rotation of Structural Members in the Slope-Deflection Method, A——Chang-Ping Chiou.... 9, 505
Method of System Identification with Deterministic Aperiodical Input, A——Fwu-Ren Liann and Shih-Chang Lin.... 8, 143
Microcomputer Loop Communication Network Design——Yau-Po Yang and Chang-Huan Liu.... 8, 429
Microcomputer-Controlled Measurement of the Electrolyte Electroreflectance of $Ga_{1-x}Al_xAs$——Ying-Sheng Huang, Sen-Bin Tseng, Chuang-Jan Chang, Hun-Mei Chen, and Gwo-Jen Jan.... 9, 27
Microprocessor-Based Electrohydraulic Servo System, A——Shih-Chang Lin and Ching-Hai Chen.... 7, 55
Microprocessor-Based Filed Oriented Control of Current Source Inverter-Fed Induction Motor Drives——Chang-Huan Liu, Ching-Chi Chen, and Lian-Chen Chou....10, 53
Microstrip Antenna Array Controlled with Active Phase Shifter——Hsueh-Jyh Li and Ming-Tzong Shieh.... 9, 633
Model for Measuring Productive Efficiency, A——Chiang Kao.... 9, 251
Model for Shoreline Evolution Around a River Mouth, A——Ming-Chung Lin and Jyh-Cherng Wang.... 6, 141
Model Simplification of Stable Discrete-Time Systems by the Squared Magnitude Padé Approximation——Chyi Hwang and Hang-Chun Chow.... 9, 267
Modeling and Optimal Control of a Lightweight Bracing Manipulator——Ya-Chien Chung, Shui-Shong Lu, and Wayne J. Book....10, 241
Modeling and Simulation of Non-Adiabatic Catalytic Fixed Bed Reactor——Ching-Tien Liou and Yi-Shyong Chou.... 6, 99
Modified Floating-Point Code for Voice Coding and Its Applications, A——Chang-Fun Chen....10, 421
Modified *Y*-Parameter Model for Computer-Aided Analysis Using SPICE2, A——Wen-Lin Jung.... 9, 157

Moisture Migration and Condensation Within Porous Material——Kang-Shin Chen, Kuan-Hsiung Yang and Wang-Cheng Hwang....10, 485
Moment Redistribution in Reinforced Concrete Frames——Yi-Lung Mo 9, 105
Multiaxial Constitutive Law for Concrete Structures Subjected to Impact Loading, The——Jenn-Chuan Chern and Ching-Huei Chen 10, 625
Natural Convection Effects on Laminar Heat Transfer in the Thermal Entrance Region of Horizontal Isothermal Tubes——Guang-Jyh Hwang and Min-June Lin.... 8, 343
New Algorithms of Interpolations for a Computer Numerical Control System——Yung-Chan Chen... 8, 437
New Approach to Analyze Nonlinear Standing Waves, A——Ching-Piao Tsai, Yang-Yih Chen, Frederick L. W. Tang, and H. H. Hwung 10, 233
Numerical Analysis of Magnetic Field Distribution in an Air Gap with the Effect of Armature Reaction——Chain-Gee Hong and Guang-Jyh Hwang....10, 129
Numerical Analysis of Magnetic Field Distribution in an Air Gap with the Effects of Slot Depth and Width——Chain-Gee Hong and Guang-Lyh-Hwang.... 9, 203
Numerical Prediction of Carter Coefficient in a Curved Air Gap, A——Chain-Gee Hong and Guang-Jyh Hwang....10, 217
Numerical Verification on a 90° Interior Crest Angle in Limiting Gravity Waves——Shi-Chuan Lin, Yang-Yih Chen, and Shian-Gwo Chang 10, 539
Optimal Cartesian Product Files for Orthogonal Range Queries——Chin-Chen Chang and Shy-Shyan Chang....10, 727
Optimal Design of Solar Water Heating Systems, An——Chen-Wen Pwu and Kuo-Shong Wang 7, 11
Optimal Impulse Response Matching via the Residue Method for Model Reduction of Discrete Systems, An——Ruey-Yinn Hwang, Chyi Hwang, and Yen-Ping Shih 6, 169
Optimization of Batch Crystallization Processes via Legendre Polynomials——Maw-Ling Wang and Chon-Fon Chen 7, 27
Optimum Design of a Cogeneration System in Processes——Chih-Chung Chou and Yen-Shiang Shih... 9, 375
Output Feedback Control with Optimal Gains for a One-Ling Flexible Robot Arm——Wen-Jieh Wang, Chen-Fa Hsu, and Shui-Shong Lu....10, 409
Oxidation of Sulphite at Higher Concentration of Cobaltous Ion Catalyst——Bing-Jeo Hwang, Tse-Chuan Chou, and Kung-Ming Hong 10, 531
Parameter Estimation with Variable Sampling Time via Generalized Block Pulse Functions——Rong-Liang Chen and Wen-Teng Wu....10, 567
Parameter Identification of Bilinear Systems by Block Pulse Functions——Fan Ren, Yen-Ping Shih, Soo-Chang Pei, and Ruey-Tyng Guo 6, 39
Parameter Identification of Discrete Systems via Discrete Chebyshev Transformation——Ruey-Yinn Hwang and Yen-Ping Shih.... 8, 153
Parameter Identification of Systems with Unmeasured Disturbances——Wen-Teng Wu and Jenn-Chien Chou 7, 127
Peak Height Estimation of the Equatorial F2 Layer——Ruey-Beei Wu and Chun-Ming Huang..... 7, 119
Percolation Process in High Conductivity Phosphorus Doped Amorphous Si:H:F Alloys——Si-Chen Lee and Shyh-Shi Chao 6, 245
Performance Analyses of Multi-Attribute Files Based Upon Multiple Key Hashing Functions and Haphazard Files——Chin-Chen Chang and Don-Hsin Su 10, 99
Performance Analysis of a *k*-Nearest Neighbor Searching Technique——Chin-Chen Chang and Jenn Liang.... 8, 157
Performance Analysis of the Disk Modulo Allocation Method for Concurrent Accessing on Multiple Disk Systems——Chin-Chen Chang and Jaw-Ji Shen 8, 271
Performance Evaluation of a Finite Queue with Random Routing——Chung-Ju Chang and Jin-Fu Chang....10, 671
Performance Study of a Differential Adaptive Reservation Multiaccess Technique for Data Transmissions——Duei Tsai and Jin-Fu Chang.... 9, 595
Photographic Study of Bouble Coalescence——Jer-Ru Maa and Yu-Min Yang 6, 257
Pipelined Detabase Machine with Efficient Join Operation, A——Wen-Tsuen Chen, Yung-Chen Hung, and Mu-Chun Tzen 10, 585
Polling of Two Correlated Queues Under Three Service Disciplines in Discrete-Time Environment——Chie Dou and Jin-Fu Chang.... 9, 405
Prediction of Moment Redistribution in Continuous Prestressed Concrete Beams——Yi-Lung Mo..... 9, 281
Prediction of the Thermal Conductivity of Polar Pure Liquids——Rex Mao-Hsin Chiu, Bao-Dong Chen, and Wen-Nan Chien....10, 329
Preliminary Study on the Simulation of Mixed Traffic Flow, A——Yi-Hwa Chou and Tien-Tsyh Chen 6, 65
Pressure Characteristics of Random Water Waves, The——Yi-Yu Kuo and Her-Yuan Chen 6, 1
Progressive Surface Waves in Elliptical Channels——William Chin-Hwa Kong.... 9, 9

Properties of Modified Hermite Polynomials and Their Applications to Functional Differential Equations, The——Rong-Yeu Chang and Maw-Ling Wang 9, 75
Radiation of a Line Source in a Leaky Wedge Structure——Kuan-Kin Chan..... 7, 147
Realization of a New Class of Five-Element-Kind Networks——Shao-Shiun Chung 6, 117
Realization of Multimemory Block Structure Digital Adaptive Filter Using Distributed Arithmetic, On the——Yi-Yung Chiu and Che-Ho Wei 10, 115
Real-Time Feature Extraction Method for PVC Detection in Bedside Monitor, A——Walter H. Chang, Tsann-Liu and Kang-Ping Lin 10, 511
Real-Time Pitch Extraction and Four-Tone Recognition System for Mandarin Speech, A——Kai Chen Chang and Chien-Chiao Yang 9, 37
Recovery of Metals from Power Plant Fly Ash by Two-Stage Preferential Chlorination——Ching-Yuan Chang, George Burnet, and Mike J. Murtha.....10, 295
Recursive Optimization Technique for the Design of 2D Half-Plane Recursive Digital Filters——Soo-Chang Pei and Chan-Lin Chen..... 7, 239
Reduced Processing Element Architecture for Parallel Local Image Processing——Po-Ning Chen, Yung-Sheng Chen, and Wen-Hsing Hsu.....10, 701
Reduced-Order Modeling of Linear Discrete-Time Systems Ueing Cauer Third Continued-Fraction Method——Chyi Hwang and Chee-Fai Yung 10, 283
Relationship Between Mobile Charges and Interface Trap States in Silicon MOS Capacitors——Jenn-Gwo Hwu, Way-Seen Wang and Yun-Leei Chiou 9, 171
Relationship Between the Eigenstructures and Trajectory Sensitivity of Autonomous Linear Time-Invariant Systems, The——I-Kong Fong, Chen-Fa Hsu, Min-Yen Wu, and Te-Son Kuo 8, 373
Reliability-Based Design for Space Steel Frames——Yin-Yu Chen and Deh-Shiu Hsu 7, 1
Removal of Lindane from Water by Activated Carbon in the Bisolute Adsortion System——Szu-Kung Tseng 9, 365
Robust Optimization of Multivariable Systems with Time-Varying Nonlinear Perturbations, The——Feng-Hsian Hsiao and Bor-Sen Chen.....10, 317
Rotary Effect on the Constitutive Equation of a Rotational Deformable Object——Hong-Ki Hong and Lei Hin-Chi..... 9, 223
Salt Effect of Lithium Bromide on the Solution Polymerization of Acrylonitrile——Chuh-Yung Chen, Jen-Feng Kuo, Schon-Youh Shieh, and Jih-Gang Tornt..... 9, 259
Scanning Laser-Range-Finder with Dual Receivers, A——Yung-Chang Chen and Ming-Fa Tsai 10, 67
Second Harmonic and 1/2 Subharmonic Excitations of Machine-Isolator-Floor Systems——Rong-Tyai Wang and Kuo-Shong Wang 8, 7
Semi-Empirical Approach for the Prediction of AFT-Body Drag of Supersonic Projectiles with Base Bleeding, A——Chyi-Yeou Soong and Sing Chu 6, 21
Semi-Implicit Numerical Model for Storm Surges, A——Robert R. Hwang and Chia-Chi Yao 10, 463
Simulation for the Bulk Polymerization of Acrylonitrile, A——Chuh-Yung Chen, Shiou-Wen Chen, Jium-Yueh Mao, and Jen-Geng Kuo 7, 171
Solution of Low Péclet Number Heat Transfer with Viscous Dissipation in the Infinite Axial Region Between Parallel Plates via Functional Analytic Methods——Ching-Tien Liou and Feng-Sheng Wang 9, 521
Solution of Low Péclet Number Heat Transfer with Viscous Dissipation in the Semi-Infinite Axial Region of a Tube via Functional Analytic Methods——Ching-Tien Liou and Feng-Sheng Wang... 9, 497
Solution of Partial Differential Equation of Population Balance by Shifted Legendre Polynomials——Maw-Ling Wang and Rong-Yeu Chang..... 6, 31
Solution of Population Balance Equation by Double Legendre Polynomial Transformation——Maw-Ling Wang and Song-Chiang Chen..... 6, 227
Solutions of Plate Problems by Finite Strip Method with Orthogonal Collocation——Jiann-Quo Tarn and San-Ton Lin..... 9, 195
Solutions of Solid-Fluid Conjugated Problems with Applications in the Capillary Die Heat Transfer——Yi-Hsu Ju and Wen-Chien Lee 8, 239
Solution Procedure for the Resource Control Problem in Two-Level Hierarchical Decision Processes, A——Ue-Pyng Wen 6, 91
Sorption and Diffusion of Alcohol-Benzene Mixtures in Dowex MSC-1——Shih-Chen Chien and Ting-Yueh Lee..... 8, 17
Stability Analysis of Arbitrary Shape Landslope by Vartational Calculus and Finite Difference Method——Lai-Yun Wu 10, 473
Stable Linear System Reduction via a Multipoint Tangent Phase Continued-Fraction Expansion——Chyi Hwang and Muh-Yang Chen 10, 417
Static and Dynamic Finite Element Analysis of Helical Springs and Experimental Verifications, On——Wen-Hwa Chen and Pwu Tsai..... 6, 9
Strategies of Using Fly Ash and Their Effect on Properties of Cement Mortar——Chao-Lung Hwang, Chao-Yin, and Shen-Sein Hong 9, 289

Strategy for the Optimization and Economic Evaluation of an ORC System for Energy Recovery, A——Yen-Shiang Shih, Shu-Fun Kuo, and Krystal M. Lee 9, 485
Strength Development of Blended Blast-Furnace Slag-Cement Mortars——Chao-Lung Hwang and Chao-Yin Lin 9, 233
Stress Relaxation of the 1, 2-Syndiotatic Polybutadiene Thermoplastic Elastomer, The——Ging-Ho Hsiue and Sheng-Chang Wu 8, 357
Study of Parameters Affecting the Continuous CO_2 Laser Cuts, A——Bekir Sami Yilbas and Zahide Yilbas 10, 543
Study of the Spatial Distribution of Transportation—An Alternative Approach and Evaluation, A——Hsiao-Fan Wang 8, 223
Study of Particulate Air Pollution in Taipei, A——Fu-Tien Jenq and Jun-Chang Lee 7, 81
Study on Controller Tuning and Control Specifications, A——Ching-Tien Liou and Min-Che Chuang... 6, 219
Study on Engineering Properties of Compacted Lateritic Gravels, A——Ping-Sien Lin 9, 533
Study on the Application of Circular Biarcs Fitting to Numerically Controlled Machining, A——Rong-Shean Lee and Nan-Jiune Liang 7, 225
Study on the Dynamic Instability of Plate Structure——Huei-Jeng Lin and Ya-Jung Lee 9, 59
Study on the Interconnection of Slotted Random Access Networks, A——Jean-Lien C. Wu, Jing-Shown Wu, and Ho-Ting Wu 10, 605
System Model for Chinese Character Fonts Generation, A——Kuo-Young Cheng and Keh-Jiann Chen 6, 175
Systolic Algorithms for the Longest Common Subsequence Problem——Chang-Biau Yang and R. C. T. Lee 10, 691
Task Assignment in Loosely-Coupled Multiprocessor System——Wen-Tsuen Chen and Jang-Ping Sheu 10, 721
Techniques of Progress Monitoring and Priority Control in an MRP System, The——Tsung-Shin Hsu 8, 75
Techno-Economic Evaluation and Sensitivity Analysis of an Energy-Recovery System——Krystal Mingjer Lee and Yen-Shiang Shih 8, 85
Temperature Distribution in Steel Frames Exposed to a Fire Environment——Jiann-Quo Tarn, Jenn-Chuan Lay, and Yi-Bin Wang 10, 615
Text-Independent Speaker Identification via LPC and Tone Structure of Mandarin Speech——Sin-Horng Chen and Min-Tau Lin 10, 555
Time-Dependent Incompressible Viscous Flow Past a Circular Cylinder——Robert R. Hwang, Te-Pu Chiang, and Mau-Tse Chiao 9, 617
Transfer Coefficients on the Shell Progressive Poisoning Model——Tshung-Yee Lee and Ching-Tien Liou 8, 231
Transformation of Cauer's Third Form Realized by Integrators, A——Chyi Hwang and Yen-Ping Shih 6, 57
Transformation of Continuous-Time State Equations to Discrete-Time State Equations——Chyi Hwang and Chee-Fai Yung 8, 389
Transformation of State-Space Model to Jordan Continued Fraction Expansion Canonical Form, A——Chyi Hwang and Yen-Ping Shih 7, 291
Transient Diffusion Through a Porous Plate Between Two Compartments——Hung-Shan Weng and Yuh-Fong Tszeng 10, 435
Transient Ignition on a Plate——Shih-Tuen Lee and Chau-Chih Chen 9, 391
Turbulence Measurements in a 90° Square Duct Using Laser-Doppler Velocimetry——Tong-Miin Liou and Cheng-Hsin Liu 9, 19
Two New Methods for the Synthesis of Low Sensitivity State Feedback Regulator——I-Kong Fong, Te-Son-Kuo, Chen-Fa Hsu, and Min-Yen Wu 9, 179
Two-Phase Testing Technique for Analog Fault Diagnosis Systems, A——Chwan-Chia Wu 9, 213
Unconditionally Stable Implicit Direct Integration Method for Linear Structural Dynamics, An——Ching-Lung Liao 9, 333
Unified Algorithm for Inverting Continued Fractions, A——Chyi Hwang 6, 197
Unsteady Thermal Entrance Heat Transfer of Laminar Duct Flows with Wall Suction and Injection——Hsiao-Tsung Lin, Wen-Shing Yu, and Yen-Ping Shih 10, 157
Using Adaptive Equalizer to Improve the Performance of Partial Response Systems——Ching-Hsing Lou, Kuang-Tsan Wu, and Jin-Fu Chang 6, 161
Ventilation Flows in Laboratory Studies of Surface, Buoyant Discharges, For——Ray R. Wang 10, 305
Viscosities of Binary and Ternary Systems of Acrylonitrile, Acetonitrile, and Water——Rex Mao-Hsin Chiu, Han-Chin Twu, and Chi-Tsung Huang 7, 279
Viscous Flow Between Parallel Plates with Heat Generation——En-Tsung Chen and Ching-Tien Lion 9, 69
3D Static Analysis of Cable in Nonuniform Current——Wei-Yuan Hwang and Wen-Wu Liu 7, 159
σ-Stability and Characterization of All σ-Stabilizing Compensators——Jer-Guang Hsieh and Cheng-Feng Sze 10, 309

作者注意事項

本學刊出版工程及相關應用科學範圍之原創性論文。所收稿件將送所屬學門之專家審核，按文章之水準及長度向編輯作適當之推薦。本學刊得以論文或短篇論文形式刊出，短篇論文之形式與論文相似，但其內容較爲簡短。稿件（需四份）及通訊請寄學刊總編輯：台北市基隆路四段43號國立台灣工業技術學院石延平。凡投寄稿件必須不在其他期刊考慮出版者。稿件如經接受，校對工作將由作者負責。本學刊無稿酬，但贈送作者論文抽印本五十份。

稿件宜簡潔，且合乎下列格式：

1. **文字**　稿件應以英文撰寫，並附不超過150 字之中文及英文摘要。不諳中文之作者其文稿之摘要將由本刊代爲中譯。
2. **單位**　所有含因次之量須採用SI 單位。
3. **打字**　稿件必須用白紙打字，列與列間需有一字之間隔，用紙大小以21公分×30公分（A 4 規格）爲準。
4. **題目、作者**　論文題目宜簡明，英文題目應以大寫字體打印。作者姓名及服務機關並列於論文題目之下方。
5. **關鍵字**　在英文題目中須選出二至四個關鍵字，並置於作者姓名及服務機關之下方。
6. **章節及小節標題**　論文之章節標題須列於稿紙之中央對稱位置，且不加編號。小節標題可加編號但必須從文稿之左緣開始。
7. **數學式**　所有公式及方程式均須打字或以黑墨書寫清楚，其後標明式號於圓括弧內。爲清晰起見，每一式之上下須多空一列。
8. **長度**　論文之長度以不超過 8,000 字或其相當之長度爲準（學刊10頁）；短篇論文以不超過 3,200 字或其相當之長度爲準（學刊 4 頁）。
9. **插圖**　稿件經通知採用後，如有插圖、照片，作者應迅速提供白紙或描圖紙上墨繪製之圖表（或其光面照片）黑白光面照片等原件。所有圖表、照片必須附有編號及標題或簡短說明，用鉛筆註明作者姓名；字體一律以打字或工程字體爲準，且須夠大，其大小之決定原則爲原圖縮小成橫寬 8 公分時圖中字體符號高 2 毫米。
10. **符號說明**　論文後須有符號說明及其單位，並按英文字母先後次序排列。
11. **參考文獻**　所有參考文獻須按作者姓氏之英文字母先後次序排列且加編號。論文中引用到參考文獻時，須隨文註號碼於方括弧內。

參考文獻之寫法舉例如下：

1. Chu, S. and C. S. Wang, "TITLE," CSITR–668–72, Chung Shan Institute of Science and Technology, Lungtan, Taiwan (1977).
2. Etkin, B., *Dynamics of Atmospheric Flight,* John Wiley and Sons, New York, N.Y., pp. 166–188 (1970).
3. Hsiao, C. H.,"TITLE," Ph. D. Thesis, Department of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan (1974).
4. Morris, J. G. and K. K. Howard, "Thermomechanical Treatments of Alloys," *J. Appl. Phys.*, Vol. 42, No. 1, pp. 321–325 (1971).
5. Pfaltz, J. L. and A. Rosenfeld, "TITLE," *Proc. First Int. Joint Conf. Artificial Intelligence,* Washington, D.C. (1969).

Notes for Contributors

The Journal of the Chinese Institute of Engineers publishes orginal research papers on all phases of engineering and related fields in applied sciences. All papers submitted are refereed by experts who will advise the Editor on the matter of acceptance on the basis of merit, orginality and length of the paper. Only those papers that are highly recommended will be accepted, and this Journal reserves the right to accept the paper either as a full paper or as a short paper. A short paper is similar in form to a full paper, but presents material of a brief nature or restricted scope. Four copies of manuscripts should be submitted to the Editor–in–Chief: Dr. Yen-Ping Shih, National Taiwan Institute of Technology, No. 43, Sec 4, Keelung Rd., Taipei, Taiwan, R.O.C. Manuscripts are reviewed with the understanding that the same work has not been and will not be published nor is presently submitted elsewhere. If the paper is accepted, the author will be responsible for proof-reading. This journal does not offer payment, but fifty reprints of each paper will be provided free of charge.

In addition to being concise and consistent in style, spelling and the use of abbreviations, the paper should conform to the following instructions.

1. **Language:** Papers should be written in English. Each paper should have abstracts (not exceeding 150 words) in both Chinese and English. For the author unfamiliar with Chinese, he may only submit the English abstract which will be translated into Chinese by the editor of this Journal.
2. **Units:** The SI units should be followed for all dimensional quantities.
3. **Typescript:** Manuscripts should be typed, double-spaced, on standard white paper measuring 21 cm x 30 cm (A4 format).
4. **Title & Author:** The title of the paper should be concise, informative and in capital letters. The author's name and affiliation should appear below the title.
5. **Keywords:** Several keywords (not more than 4 words) for the title of the paper should be given below the author's name and affiliation.
6. **Headings:** Headings for sections should be centered on the page without numbering. Headings for subsections, which can be numbered, should start from the left-hand margin.
7. **Equations and Mathematical Formulas:** All equations and mathematical formulas should be typewritten or written clearly in ink. Equations should be numbered serially on the righthand side by Arabic numerals in parentheses. Leave as much space as possible above and below all of the mathematical expressions.
8. **Length:** The text of a full paper normally should not exceed 8,000 words (10 printed pages in the Journal) or equivalent. A short paper normally should not exceed 3,200 words (4 pages) or equivalent.
9. **Figures:** Once the paper is accepted, the author should promptly supply orginal copies of all of the illustrations, line drawings drafted in ink on white or drawing paper (or "glossies"), and black and white prints on glossy papers. All illustrations, photographs, tables, etc. should be numbered, titled and have descriptive captions. The figure number and author's name should be clearly indicated on the reverse side of each illustration. The lettering, typed or in engineering type, should be large enough so that when reduced, it will still be legible.
10. **Nomenclature:** All symbols and units should be listed in English and in alphabetical order with indication of their meaning and dimensions.
11. **References:** References should be listed and numbered in alphabetical order according to author, Patentee, or editor. Complete information with the title of the paper, Patent, report, etc. should be given

Examples:

1. Chu, S. and C. S. Wang, "TITLE," CSITR–668–72, Chung Shan Institute of Science and Technology, Lungtan, Taiwan (1977).
2. Etkin, B., *Dynamics of Atmospheric Flight*, John Wiley and Sons, New York, N.Y., pp. 166–188 (1970).
3. Hsiao, C. H.,"TITLE," Ph. D. Thesis, Department of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan (1974).
4. Morris, J. G. and K. K. Howard, "Thermomechanical Treatments of Alloys," *J. Appl. Phys.*, Vol. 42, No. 1, pp. 321–325 (1971).
5. Pfaltz, J. L. and A. Rosenfeld, "TITLE," *Proc. First Int. Joint Conf. Artificial Intelligence*, Washington, D.C. (1969).

中 國 工 程 學 刊

Journal of the Chinese Institute of Engineers

民國七十九年四月
April, 1990

索引（第六卷至第十卷）
（民國七十二年至七十六年）
Index(Vol. 6—Vol. 10)
(1983—1987)

目 錄
CONTENTS

Author Index 1

Subject Index 12

Title Index 30

行政院新聞局出版事業登記證
局版台誌字第2086號

台灣郵政管理局雜誌交寄
執照台字第4294號